NATIONAL BOARD OF ACCREDITATION

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

Note: To save Data Capturing Points as PDF Please click on print button and select destination as 'Save as PDF'. PLEASE SELECT LANDSCAPE MODE.

Program Name : Electronics & Communication Engineering	**Discipline**: Engineering & Technology
Level : Under Graduate	**Tier**: 1
Application No: 10834	**Date of Submission**: 24-06-2025

PART A- Profile of the Institute

A1.Name of the Institute: NIST University	
Year of Establishment : 1996	Location of the Institute: GOLANTHARA BERHAMPUR ODISHA
A2. Institute Address:National Institute of Science & TechnologyPalur Hills, Berhampur, Odisha - 761008	
City:Ganjam	State:Odisha
Pin Code:761008	Website:www.nist.edu
Email:principal@nist.edu	Phone No(with STD Code):0680-2492421
A3. Name and Address of the Affiliating University (if any):	
Name of the University :	City:
State : Odisha	Pin Code: 761008
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: **11**
- No. of PG programs: **8**

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	Computer Application	PG	Master in Computer Applications	2002	--	Computer Application
2	Engineering & Technology	UG	Civil Engineering	2013	--	Civil Engineering
3	Engineering & Technology	UG	Computer Science & Technology	2022	2025	Computer Science and Engineering
4	Engineering & Technology	UG	Computer Science and Engineering	1996	--	Computer Science and Engineering
5	Engineering & Technology	PG	Computer Science and Engineering	2008	--	Computer Science and Engineering
6	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	2024	--	Computer Science and Engineering
7	Engineering & Technology	UG	Computer Science and Engineering (Data Science)	2024	--	Computer Science and Engineering

8	Engineering & Technology	UG	Electrical and Electronics Engineering	1996	--	Electrical Engineering
9	Engineering & Technology	PG	Electrical Engineering	2009	--	Electrical Engineering
10	Engineering & Technology	UG	Electrical Engineering	2012	2025	Electrical Engineering
11	Engineering & Technology	UG	Electronics & Communication Engineering	1996	--	Electronics and Communication Engineering
12	Engineering & Technology	PG	Electronics & Communication Engineering	2003	--	Electronics and Communication Engineering
13	Engineering & Technology	UG	Electronics and Computer Science Engineering	2022	2024	Electronics and Communication Engineering
14	Engineering & Technology	UG	Information Technology	1999	--	Computer Science and Engineering
15	Engineering & Technology	UG	Mechanical Engineering	2012	--	Mechanical Engineering
16	Engineering & Technology	PG	Mechanical Engineering	2024	--	Mechanical and Automation Engineering
17	Engineering & Technology	PG	VLSI & Embedded Systems Design	2010	--	Electronics and Communication Engineering
18	Engineering & Technology	PG	Wireless Communication Technology	2024	--	Electronics and Communication Engineering
19	Management	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.

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	PROGRA DURATIO
1	Electronics & Communication Engineering	UG	1996 / --	60	Yes	2002	120	2002	F.No. Eastern/1-43665126724/2024/EOA	Granted accreditation for 3 years for the period (specify period)	--	--	1	4

Sanctioned Intake for Last Five Years for the Electronics & Communication Engineering	
Academic Year	**Sanctioned Intake**
2024-25	120
2023-24	120
2022-23	120
2021-22	120
2020-21	120
2019-20	120

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 :	Rajesh Kumat Patjoshi
B. Nature of appointment:	Regular
C. Qualification:	Ph.D

B3. Program Details

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

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	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)	120	120	120	120	120	120	120
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	82	63	51	34	31	125	112
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	4	2	1	3	2	4
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.	82	67	53	35	34	127	116

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)	120	82	0	68.33
2023-24 (CAYm1)	120	63	0	52.50
2022-23 (CAYm2)	120	51	0	42.50

Average [(ER1 + ER2 + ER3) / 3] = 54.44≡ 8.00

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).	123.00	122.00	124.00
B=No. of students who graduated from the program in the stipulated course duration	33.00	109.00	108.00
Success Rate (SR)= (B/A) * 100	26.83	89.34	87.10

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 67.76

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)	7.20	7.00	7.66
Y=Total no. of successful students	60.00	50.00	33.00
Z=Total no. of students appeared in the examination	63.00	52.00	33.00
API [X*(Y/Z)]	6.86	6.73	7.66

Average API[(AP1+AP2+AP3)/3] : 7.08

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 2rd year/10)	7.26	7.61	7.28
Y=Total no. of successful students	55.00	33.00	33.00
Z=Total no. of students appeared in the examination	53.00	35.00	36.00
API [X * (Y/Z)]	7.53	7.18	6.67

Average API [(AP1 + AP2 + AP3)/3] : 7.13

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)	7.74	7.26	8.12
Y=Total no. of successful students	33.00	33.00	115.00
Z=Total no. of students appeared in the examination	33.00	33.00	116.00
API [X*(Y/Z)]:	7.74	7.26	8.05

Average API [(AP1 + AP2 + AP3)/3] : 7.68

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	123.00	122.00	124.00
X=No. of students placed	11.00	102.00	99.00
Y=No. of students admitted to higher studies	2.00	2.00	3.00
Z= No. of students taking up entrepreneurship	0.00	0.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	10.57	85.25	82.26

Average Placement Index = (P_1 + P_2 + P_3)/3: 59.36 Placement Index Points:

PART C: Faculty Details in Department and Allied Departments

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

C1. Faculty details of Department and Allied Departments

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

Sr.No	Name of the Faculty	PAN No.	Highest degree	University	Area of Specialization	Date of Joining in this Institution	Experience in years in current institute	Designation at Time Joining in this Institution	Present Designation	The date on which Designated as Professor/ Associate Professor if any	Nature of Association (Regular/ Contract/ Ad hoc)	Currently Associated (Y/N)	In case of NO, Date of Leaving	IS HOD?
1	Rajesh Kumat Patjoshi	XXXXXXX33D	Ph.D	NIT Rourkela	VLSI and Control	12/05/2017	8.1	Associate Professor	Associate Professor		Regular	Yes		Yes
2	Asit Kumar Panda	XXXXXXX95L	Ph.D	KIIT University	Microwave, Metamaterial	01/09/2009	15.9	Assistant Professor	Associate Professor	01/10/2019	Regular	Yes		No
3	Bibhuti Bhusan Mishra	XXXXXXX01J	M.Tech	BPUT	Signal Processing	01/10/2014	10.8	Assistant Professor	Assistant Professor		Regular	Yes		No
4	Durga Prasad Dash	XXXXXXX78M	M.Tech	Visvesvaraya Technological University	Digital Electronics and Communication Systems (DECS)	12/10/2009	15.8	Assistant Professor	Assistant Professor		Regular	Yes		No

5	Harikrushna Gantayat	XXXXXXX04Q	Ph.D	BPUT	Communication System	19/05/2006	19.1	Assistant Professor	Assistant Professor		Regular	Yes		No
6	Malabika Pattnaik	XXXXXXX70K	M.Tech	BPUT	RF and Microwave circuits	01/12/2000	24.6	Assistant Professor	Assistant Professor		Regular	Yes		No
7	Manoj Kumar Senapati	XXXXXXX67J	M.Tech	BPUT	VLSI	18/07/2009	15.11	Assistant Professor	Assistant Professor		Regular	Yes		No
8	Mitu Baral	XXXXXXX13B	M.Tech	BPUT	VLSI	17/05/2007	18.1	Assistant Professor	Assistant Professor		Regular	Yes		No
9	Pradyumna Kumar Patra	XXXXXXX84D	Ph.D	NITTTR	Antenna & Microwave	13/04/2009	16.2	Assistant Professor	Associate Professor	03/08/2021	Regular	Yes		No
10	Purnendu Mishra	XXXXXXX28Q	M.Tech	BPUT	Communication System	26/06/2008	17	Assistant Professor	Assistant Professor		Regular	Yes		No
11	Rakesh Roshan	XXXXXXX14N	M.E.	BIT Meshra	Microwave Engineering	22/06/2005	20	Assistant Professor	Assistant Professor		Regular	Yes		No
12	Sandipan Mallik	XXXXXXX25D	Ph.D	Jadavpur University	Semiconductor Device	10/07/2014	10.11	Assistant Professor	Professor	07/05/2025	Regular	Yes		No
13	Satya Sopan Mahato	XXXXXXX80K	Ph.D	Jadavpur University	Semiconductor Device and Modeling	23/01/2009	16.5	Assistant Professor	Associate Professor	01/07/2017	Regular	Yes		No
14	Sudhakar Das	XXXXXXX70E	Ph.D	BPUT	Semiconductor Device and Modeling	13/10/2003	21.8	Assistant Professor	Professor	02/06/2018	Regular	Yes		No
15	Sukanti Pal	XXXXXXX04G	M.Tech	BPUT	Signal Processing	23/06/2008	17	Assistant Professor	Assistant Professor		Regular	Yes		No
16	Swadhin Kumar Mishra	XXXXXXX53B	M.Tech	IIT Guwahati	Wireless Communication System	14/06/2010	15	Assistant Professor	Assistant Professor		Regular	Yes		No
17	Prabhudutta Pradhan	XXXXXXX85R	Ph.D	BPUT	Optical Network	19/06/2006	18	Assistant Professor	Assistant Professor		Regular	No	29/06/2024	No
18	M Suresh	XXXXXXX81Q	Ph.D	SAMBALPUR UNIVERSITY	Digital Design	18/05/1998	25.3	Assistant Professor	Professor	01/07/2016	Regular	No	02/09/2023	No
19	Rajesh Kumar Dash	XXXXXXX76G	M.Tech	GITAM UNIVERSITY	Microwave Engg.	01/09/1997	25.7	Assistant Professor	Assistant Professor		Regular	No	08/04/2023	No
20	ASHISH KUMAR DASS	XXXXXXX33C	M.Tech	BPUT	MACHINE LEARNING	20/07/2007	17.11	Assistant Professor	Assistant Professor		Regular	Yes		No
21	MANOJ KUMAR SAHOO	XXXXXXX28N	M.Tech	BERHAMPUR UNIVERSITY	INFORMATION SYSTEMS	27/01/2021	4.4	Assistant Professor	Assistant Professor		Regular	Yes		No
22	Basant Kumar Sahu	XXXXXXX01H	Ph.D	NIT Rourkela	Robotics and Control System Engineering	17/07/2015	9.11	Assistant Professor	Associate Professor	29/11/2022	Regular	Yes		No

23	Kunjabihari Swain	XXXXXXX25F	Ph.D	CUTM	Wide area measurement	01/08/2020	4.10	Assistant Professor	Associate Professor	23/09/2023	Regular	Yes		No
24	CH Murthy	XXXXXXX92G	Ph.D	BIT Meshra	Power system	02/08/2010	14.10	Assistant Professor	Professor	26/10/2019	Regular	Yes		No
25	Chittaranjan Biswal	XXXXXXX60J	M.Tech	IIT Kharagpur	Power System Engineering	01/05/2015	10.1	Assistant Professor	Assistant Professor		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 Department2 No. of PG Programs in the Department3

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

Description	**CAY(2024-25)**	**CAYm1 (2023-24)**	**CAYm2 (2022-23)**
UG1.B	60	60	0
UG1.C	60	0	0
UG1.D	0	0	0
UG1: Electronics and Computer Science Engineering	**120**	**60**	**0**
UG2.B	124	122	120
UG2.C	122	120	120
UG2.D	120	120	122
UG2: Electronics & Communication Engineering	**366**	**362**	**362**
PG1.A	6	9	9
PG1.B	9	9	9
PG1: Electronics & Communication Engineering	**15**	**18**	**18**
PG2.A	6	9	9
PG2.B	9	9	9

Description	CAY(2024-25)	CAYm1 (2023-24)	CAYm2 (2022-23)
PG2: VLSI & Embedded Systems Design	**15**	**18**	**18**
PG3.A	6	0	0
PG3.B	0	0	0
PG3: Wireless Communication Technology	**6**	**0**	**0**
DS=Total no. of students in all UG and PG programs in the Department	522	458	398
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=** 522	**S2=** 458	**S3=** 398
DF=Total no. of faculty members in the Department	22	23	24
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=** 22	**F2=** 23	**F3=** 24
FF=The faculty members in F who have a 100% teaching load in the first-year courses	2	2	2
Student Faculty Ratio (SFR)=S/(F-FF)	**SFR1= 26.10**	**SFR2= 21.81**	**SFR3= 18.09**
Average SFR for 3 years	**SFR= 22.00**		

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)	9	13	26.00	13.65
2023-24(CAYm1)	10	13	22.00	17.27
2022-23(CAYm2)	10	14	19.00	20.53

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	2.00	2.00	5.00	7.00	17.00	13.00

2023-24	2.00	2.00	5.00	6.00	15.00	15.00
2022-23	2.00	3.00	4.00	5.00	13.00	16.00
Average	RF1=2.00	AF1=2.33	RF2=4.67	AF2=6.00	RF2=15.00	AF2=14.67

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. Rankanidhi sahu	Professor	Berhampur University	Advance Semiconductor Device and Opto-Electronics	60.00
2	Dr. Trinath Sahu	Professor	Berhampur University	VLSI Technology and NANO Materials	60.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dr. Rankanidhi sahu	Professor	Berhampur University	Advance Semiconductor Device and Opto-Electronics	60.00
2	Dr. Trinath Sahu	Professor	Berhampur University	VLSI Technology and NANO Materials	60.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dr. Rankanidhi sahu	Professor	Berhampur University	Advance Semiconductor Device and Opto-Electronics	60.00
2	Dr. Trinath Sahu	Professor	Berhampur University	VLSI Technology and NANO Materials	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	8	7	5
2	No. of peer reviewed conference papers published	1	6	2
3	No. of books/book chapters published	0	3	5

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.Sandipan Mallik	-	ECE	FILE 2	DST -WOSA	3 YEARS	1000000.00
Dr.Sandipan Mallik	-	ECE	FILE 3	DST -WOSA	3 YEARS	650000.00
						Amount received (Rs.):1650000.00

(CAYm2)

(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.Sandipan Mallik	-	ECE	FILE 1	DST SERB	3 YEARS	467470.00
						Amount received (Rs.):467470.00

Total Amount (Lacs) Received for the Past 3 Years: 2117470.00

Note*:

- Only sponsored research projects will be considered. Infrastructure-based projects will not be considered here.

C8. Consultancy Work

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

(CAYm1)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
-	-	NIST SUMMER COURSE	SUMMER COURSE	-	18 DAYS	263500.00
						Amount received (Rs.):263500.00

(CAYm2)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
-	-	NIST SUMMER COURSE	SUMMER COURSE	-	18 DAYS	171000.00
						Amount received (Rs.):171000.00

(CAYm3)

Total amount (Lacs) received for the past 3 years: 434500.00

Note*:

- Only consultancy projects will be considered. Infrastructure-based projects will not be considered here.

C9. Institution Seed Money or Internal Research Grant to its Faculty for Research Work

Table No. C9.1: List of faculty members received seed money or internal research grant from the Institution.

(CAYm1)

(CAYm2)

(CAYm3)

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

PART D: Laboratory Infrastructure in the Department

(Data to be filled in for the Department)

D1. Adequate and Well-Equipped Laboratories, and Technical Manpower

Table No.D1.1: List of laboratories and technical manpower.

Sr. No	Name of the Laboratory	Number of students per set up(Batch Size)	Name of the Important Equipment	Weekly utilization status(all the courses for which the lab is utilized)	Technical Manpower Support		
					Name of the Technical staff	Designation	Qualification
1	Analog Electronics Lab.	2	• Dual channel cathode ray oscilloscope 30 MHZ • Dual channel cathode ray oscilloscope 20 MHZ •	8 hrs	Mr Soumya Ranjan Kar	Lab supervisor	B.Tech
2	Signal and system Lab.	2	• PCs • SCI Lab Simulation	8 hrs	Bidyut Prava Satapathy	Lab Supervisor	B.Tech
3	Digital Electronics Lab	2	• Dual power supply Units • Digital Multi-meter	8 Hrs	Harihara Basantia	Lab Supervisor	B.Tech
4	Microprocessor and Microcontroller Lab.	2	• Dual Channel Cathode ray Oscilloscope. • 8086 Microprocessor kit • MSP 430Microcontroller Dev Board	12 Hrs	Padmaja Mishra	Lab Instructor	M.Tech
5	Product Development Lab	2	• ESP 32 Board • Arduino Board	6 Hrs	Malabika Pattnaik	Lab Instructor	M.Tech
6	Digital Signal Processing Lab.	2	• PCs • LCDK6748 DSP Kit • OMAPL138/C6748 Hardware Board with XDS100v2	12 Hrs	Bidyut Prava Satapathy	Lab Supervisor	B-TECH
7	Analog Communication Lab.	3	• Spectrum Analyser 9khz-1.5GHz • Digital Storage Oscilloscope 50MHz and 100Mhz • AM/FM	4 Hrs	Sukanta Kumar Sabat	Lab Supervisor	Diploma
8	Digital Communication Technique Lab.	2	• QPSK modulator and demodulator Trainer • DPSK modulator and demodulator • MSK modulator	4 Hrs	Sukanta Kumar Sabat	Lab Supervisor	Diploma
9	Microwave Lab	3	• Microwave Test bench (4) • CST Demo • Cathode Ray Oscilloscope	4 Hrs	M krushna Murty	Lab Supervisor	Diploma

10	VLSI Lab.	3	• FPGA BOARD: • Tanner • EDA Playground • VIVADO	8 Hrs	Mitu Baral	Lab Instructor	M. Tech
11	Internet Of Things & Embedded System Lab.	2	• ESP 32 • Raspberry Pi • PCs • ESP8266	16 Hrs	Dr Rajesh Kumar Patjoshi	Lab Faculty	Ph. D.

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Analog Electronics Lab.	1 Clean and organized laboratories are maintained. 2 Proper rated electrical components such as MCBs are used as well as proper grounding to the measuring instruments/ equipments are ensured. 3 Specific Safety Rules, Do's and Don'ts are displayed and instructed to all students. 4 First aid box is kept in each lab. 5 Students are directed to report immediately regarding any kind of breakage, malfunctioning and injuries/accidents to the Instructor present. 6 Well trained technical / supporting staffs are always present in the labs. 7 Fully/partially damaged equipments are identified and removed from the workspace. 8 Testing of the lab equipments are done in a regular basis to avoid any hazardous condition
2	Signal and system Lab.	1 Clean and organized laboratories are maintained. 2 Proper rated electrical components such as MCBs are used as well as proper grounding to the measuring instruments/ equipments are ensured. 3 Specific Safety Rules, Do's and Don'ts are displayed and instructed to all students. 4 First aid box is kept in each lab. 5 Students are directed to report immediately regarding any kind of breakage, malfunctioning and injuries/accidents to the Instructor present. 6 Well trained technical / supporting staffs are always present in the labs. 7 Fully/partially damaged equipments are identified and removed from the workspace. 8 Testing of the lab equipments are done in a regular basis to avoid any hazardous condition
3	Digital Electronics Lab	1 Clean and organized laboratories are maintained. 2 Proper rated electrical components such as MCBs are used as well as proper grounding to the measuring instruments/ equipments are ensured. 3 Specific Safety Rules, Do's and Don'ts are displayed and instructed to all students. 4 First aid box is kept in each lab. 5 Students are directed to report immediately regarding any kind of breakage, malfunctioning and injuries/accidents to the Instructor present. 6 Well trained technical / supporting staffs are always present in the labs. 7 Fully/partially damaged equipments are identified and removed from the workspace. 8 Testing of the lab equipments are done in a regular basis to avoid any hazardous condition
4	Microprocessor and Microcontroller Lab.	1 Clean and organized laboratories are maintained. 2 Proper rated electrical components such as MCBs are used as well as proper grounding to the measuring instruments/ equipments are ensured. 3 Specific Safety Rules, Do's and Don'ts are displayed and instructed to all students. 4 First aid box is kept in each lab. 5 Students are directed to report immediately regarding any kind of breakage, malfunctioning and injuries/accidents to the Instructor present. 6 Well trained technical / supporting staffs are always present in the labs. 7 Fully/partially damaged equipments are identified and removed from the workspace. 8 Testing of the lab equipments are done in a regular basis to avoid any hazardous condition
5	Product Development Lab	1 Clean and organized laboratories are maintained. 2 Proper rated electrical components such as MCBs are used as well as proper grounding to the measuring instruments/ equipments are ensured. 3 Specific Safety Rules, Do's and Don'ts are displayed and instructed to all students. 4 First aid box is kept in each lab. 5 Students are directed to report immediately regarding any kind of breakage, malfunctioning and injuries/accidents to the Instructor present. 6 Well trained technical / supporting staffs are always present in the labs. 7 Fully/partially damaged equipments are identified and removed from the workspace. 8 Testing of the lab equipments are done in a regular basis to avoid any hazardous condition
6	Digital Signal Processing Lab.	1 Clean and organized laboratories are maintained. 2 Proper rated electrical components such as MCBs are used as well as proper grounding to the measuring instruments/ equipments are ensured. 3 Specific Safety Rules, Do's and Don'ts are displayed and instructed to all students. 4 First aid box is kept in each lab. 5 Students are directed to report immediately regarding any kind of breakage, malfunctioning and injuries/accidents to the Instructor present. 6 Well trained technical / supporting staffs are always present in the labs. 7 Fully/partially damaged equipments are identified and removed from the workspace. 8 Testing of the lab equipments are done in a regular basis to avoid any hazardous condition
7	Analog Communication Lab.	1 Clean and organized laboratories are maintained. 2 Proper rated electrical components such as MCBs are used as well as proper grounding to the measuring instruments/ equipments are ensured. 3 Specific Safety Rules, Do's and Don'ts are displayed and instructed to all students. 4 First aid box is kept in each lab. 5 Students are directed to report immediately regarding any kind of breakage, malfunctioning and injuries/accidents to the Instructor present. 6 Well trained technical / supporting staffs are always present in the labs. 7 Fully/partially damaged equipments are identified and removed from the workspace. 8 Testing of the lab equipments are done in a regular basis to avoid any hazardous condition

8	Digital Communication Technique Lab.	1 Clean and organized laboratories are maintained. 2 Proper rated electrical components such as MCBs are used as well as proper grounding to the measuring instruments/ equipments are ensured. 3 Specific Safety Rules, Do's and Don'ts are displayed and instructed to all students. 4 First aid box is kept in each lab. 5 Students are directed to report immediately regarding any kind of breakage, malfunctioning and injuries/accidents to the Instructor present. 6 Well trained technical / supporting staffs are always present in the labs. 7 Fully/partially damaged equipments are identified and removed from the workspace. 8 Testing of the lab equipments are done in a regular basis to avoid any hazardous condition
9	Microwave Lab	1 Clean and organized laboratories are maintained. 2 Proper rated electrical components such as MCBs are used as well as proper grounding to the measuring instruments/ equipments are ensured. 3 Specific Safety Rules, Do's and Don'ts are displayed and instructed to all students. 4 First aid box is kept in each lab. 5 Students are directed to report immediately regarding any kind of breakage, malfunctioning and injuries/accidents to the Instructor present. 6 Well trained technical / supporting staffs are always present in the labs. 7 Fully/partially damaged equipments are identified and removed from the workspace. 8 Testing of the lab equipments are done in a regular basis to avoid any hazardous condition
10	VLSI Lab.	1 Clean and organized laboratories are maintained. 2 Proper rated electrical components such as MCBs are used as well as proper grounding to the measuring instruments/ equipments are ensured. 3 Specific Safety Rules, Do's and Don'ts are displayed and instructed to all students. 4 First aid box is kept in each lab. 5 Students are directed to report immediately regarding any kind of breakage, malfunctioning and injuries/accidents to the Instructor present. 6 Well trained technical / supporting staffs are always present in the labs. 7 Fully/partially damaged equipments are identified and removed from the workspace. 8 Testing of the lab equipments are done in a regular basis to avoid any hazardous condition
11	Internet Of Things & Embedded System Lab.	1 Clean and organized laboratories are maintained. 2 Proper rated electrical components such as MCBs are used as well as proper grounding to the measuring instruments/ equipments are ensured. 3 Specific Safety Rules, Do's and Don'ts are displayed and instructed to all students. 4 First aid box is kept in each lab. 5 Students are directed to report immediately regarding any kind of breakage, malfunctioning and injuries/accidents to the Instructor present. 6 Well trained technical / supporting staffs are always present in the labs. 7 Fully/partially damaged equipments are identified and removed from the workspace. 8 Testing of the lab equipments are done in a regular basis to avoid any hazardous condition

D3. Project Laboratory/Research Laboratory

Sl No	Name of the Laboratory
1	Device Fabrication & Characterization Lab
2	Microwave Measurement Lab
3	FPGA Design and CADENCE Lab
4	5 G and Future Communication Lab
5	Fab Lab
6	Drone Lab

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)	725	36	0	11	6
2023-24(CAYm1)	603	30	1	18	15
2024-25(CAY)	597	30	1	20	16

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 2024-2025	Actual Expenses in 2024-2025 till	Budgeted in 2023-2024	Actual Expenses in 2023-2024 till	Budgeted in 2022-2023	Actual Expenses in 2022-2023 till	Budgeted in 2021-2022	Actual Expenses in 2021-2022 till
Infrastructure Built-Up	70000000	55083836	50000000	37770808	20000000	11961436	40000000	3920333
Library	3000000	1648526	4500000	3110171	2000000	1785684	1100000	1002978
Laboratory equipment	22600000	21336378	30000000	27254517	7000000	5218879	2500000	2414090
Teaching and non-teaching staff salary	150000000	140207591	120000000	118982824	140000000	113983244	120000000	116623222
Outreach Programs	7000000	5927659	4500000	5123165	7500000	6813176	4800000	4623145
R&D	9000000	7931537	6500000	6178981	4500000	3922474	2010000	1910071
Training, Placement and Industry linkage	7500000	6422039	6000000	5653465	7500000	5635365	5000000	4635265
SDGs	7500000	6836547	9000000	8735647	9000000	7426945	6500000	6426945
Entrepreneurship	7800000	7536598	10000000	9218201	9000000	7548051	684300	6543051
Others, specify	53000000	52018013	30000000	26079710	28000000	24954394	1860000	15601029
Total	**337400000**	**304948724**	**270500000**	**248107489**	**234500000**	**189249648**	**184454300**	**163700129**

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 2024-2025	Actual Expenses in 2024-2025 till	Budgeted in 2023-2024	Actual Expenses in 2023-2024 till	Budgeted in 2022-2023	Actual Expenses in 2022-2023 till	Budgeted in 2021-2022	Actual Expenses in 2021-2022 till
Laboratory equipment	250000	600000	350000	500000	210000	363000	460000	129000

Software	120000	0	150000	0	80000	0	150000	788000
SDGs	50000	70000	70000	59000	40000	30000	50000	0
Support for faculty development	100000	60000	100000	90000	90000	0	200000	0
R & D	200000	281000	250000	155000	100000	100000	140000	125000
Industrial Training, Industry expert, Internship	50000	60000	100000	50000	0	0	0	0
Miscellaneous Expenses*	0	0	0	0	0	0	0	0
Total	**770000**	**1071000**	**1020000**	**854000**	**520000**	**493000**	**1000000**	**1042000**