

NATIONAL BOARD OF ACCREDITATION

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

PART A- Profile of the Institute

Name of the program applied for:		B. Tech. Electronics and Communication Engineering	
A1: Name of the Institute: National Institute of Technology Raipur			
Year of Establishment: 2005		Location of the Institute: Raipur	
A2: Institute Address: - National Institute of Technology Raipur, GE Road, Raipur, CG-492010			
City: -Raipur		State: -Chhattisgarh	
Pin Code: -492010		Website: -www.nitr.ac.in	
E-mail: -director@nitr.ac.in		Phone No (With STD Code): - 0771-2255030	
A3: Name and Address of the Affiliating University (If any)* -NA			
Name of the University: -		City: -	
State: - Chhattisgarh		Pin Code: - 492010	
A4: Type of the Institution:			
Institute of National Importance	☒	Deemed University	
University	☐	Autonomous	
Non-Autonomous (Affiliated)	☐	Any other (Please specify) *	
A5: Ownership Status:			
Central Government	☒	State Government	
Government Aided	☐	Self-financing	
Any Other (Please specify) *	☐		

A6: Details of all the programs offered by the Department:

- No. of UG programs: 12
- 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
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1	UG	Architecture	1984	--	Architecture& Planning
2	PG	Urban Planning	2024	--	Architecture & Planning
3	PG	Master's in Computer Applications	1986	--	Computer Application
4	PG	Applied Geology	1961	--	Applied Geology
5	UG	Biomedical Engineering	2003	--	Biomedical Engineering
6	UG	Biotechnology	2003	--	Biotechnology
7	UG	Chemical Engineering	1962	--	Chemical Engineering
8	UG	Civil Engineering	1958	--	Civil Engineering
9	UG	Computer Science and Engineering	2000	--	Computer Science and Engineering
10	UG	Electrical Engineering	1958	--	Electrical Engineering
11	UG	Electronics & Communication Engineering	1985	--	Electronics and Communication Engineering
12	PG	Energy and Environmental	2021	--	Chemical Engineering
13	PG	Industrial Engineering and Management	2016	--	Mechanical Engineering
14	UG	Information Technology	2000	--	Information Technology
15	PG	Information Technology	2015	--	Information Technology
16	PG	Machine Design	2016	--	Mechanical Engineering
17	UG	Mechanical Engineering	1958	--	Mechanical Engineering
18	UG	Metallurgical & Materials Engineering	1956	--	Metallurgical and Materials Engineering
19	UG	Mining Engineering	1956	--	Mining Engineering
20	PG	Power System & Control	2014	--	Electrical Engineering
21	PG	Structural Engineering	2014	--	Civil Engineering
22	PG	Thermal Engineering	2010	--	Mechanical Engineering
23	PG	VLSI & Embedded Systems	2017	--	Electronics and Communication

					Engineering
24	PG	Water Resources Development and Irrigation Engineering	1986	--	Civil Engineering

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

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

S. N.	Name of the Department	Name of the Program
1.	Electronics & Communication Engineering	Electronics & Communication Engineering
2.	Civil Engineering	Civil Engineering

Table No. A7.2: Allied Department(s) to the Department of the program considered for accreditation as above.

S. N.	Name of the Department	Name of the Program
1.	NA	NA
2.	NA	NA

PART B- Program information

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	Current Intake	Year of increase/decrease	Year Of AICTE Approval	AICTE/Competent Authority Approval details	Accreditation Status	No. of times program accredited
1.	Electronics & Communication Engineering	1985	18	Yes	114	2019	NA	Yes	Accredited (2016-2018)	01
2.	VLSI & Embedded Systems	2017	24	No	24	NA	NA	Yes	Not eligible for accreditation	-

Sanctioned Intake for Last Five Years for the Electronics & Communication Engineering	
Academic Year	Sanctioned Intake
2025-26	114
2024-25	114
2023-24	114
2022-23	114
2021-22	114
2020-21	114

Sanctioned Intake for Last Five Years for the M.Tech. VLSI and Embedded System	
Academic Year	Sanctioned Intake
2025-26	24
2024-25	24
2023-24	24
2022-23	24
2021-22	24
2020-21	24

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

A. Name of the HoD: Dr. Bijayananda Patnaik, Associate Professor

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*

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 cumulative ly for all the shifts with explicit headings, wherever applicable)	2025-26 (CAY)	2024-25 (CAYm1)	2023- 24 (CAY m2)	2022- 23 (CAY m3)	2021 -22 (CAYm 4)	2020- 21 (CAY m5)	2019- 20 (CAY m6)
N=Sanctioned intake of the program (as per AICTE /Competent authority)	114	114	114	114	114	114	103

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	111	113	110	114	114	114	102
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	0	0	0	0	0	0
N3=Separate division if any	0	0	0	0	0	0	0
N4=Total no. of students admitted in the 1st year via all	0	0	0	0	0	0	0

supernumerary quotas							
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	111	113	110	114	114	114	102

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 R
2025-26 (CAY)	114	111	0	97.36
2024-25 (CAYm1)	114	113	0	99.12
2023-24 (CAYm2)	114	110	0	96.49

Average $[(ER1 + ER2 + ER3) / 3] = 97.65 \equiv 20.00$

Assessment: 20.00

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	LYG (2021-22)	LYG (2020-21)	LYGm1(2019-20)
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))	114	114	103

and separate division if applicable, minus the number of students who exited through multiple entry (if any).			
B=No. of students who graduated from the program in the stipulated course duration	108	110	99

Average SR of three batches $((SR_1 + SR_2 + SR_3)/3)$: 95.77

B6: Academic Performance of the First-Year Students of the Program

Table No.B6.1: Academic Performance of the First-Year Students of the Program.

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
Mean of CGPA or mean percentage of all successful students(X)	7.87	8.20	8.28
Y=Total no. of successful students	102	105.00	99.00
Z=Total no. of students appeared in the examination	111	110.00	114.00
API $[X*(Y/Z)]$	7.23	7.83	7.19

Average API $[(AP1 + AP2 + AP3)/3]$: 7.41

Assessment = Average API : 7.41

B7: Academic Performance of the Second Year Students of the Program

Table No.B7.1: Academic Performance of the Second Year Students of the Program.

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAY (2022-23)
X=(Mean of 2nd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2nd year/10)	7.99	8.12	8.2
Y=Total no. of successful students	100	96	105
Z=Total no. of students appeared in the examination	113	99	108
API $[X * (Y/Z)]$	7.07	7.87	7.97

Average API $[(AP1 + AP2 + AP3)/3]$: 7.63

Assessment [Average API] : 7.63

B8: Academic Performance of the Third Year Students of the Program

Table No.B8.1: Academic Performance of the Third Year Students of the Program

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 3rd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 3rd year/10)	7.77	8.16	8.42
Y=Total no. of successful students	99	104	110
Z=Total no. of students appeared in the examination	111	105	110
API [$X * (Y/Z)$]	7.69	8.08	8.42

Average API [$(AP1 + AP2 + AP3)/3$] : 8.06

Assessment [$1.5 * \text{Average API}$] : 12.09

B9: Placement, Higher Studies and Entrepreneurship

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

Item	LYG (2021-22)	LYG (2020-21)	LYGm1(2019-20)
FS*=Total no. of final year students	108	114	103
X=No. of students placed	74	75	83
Y=No. of students admitted to higher studies	4	2	3
Z= No. of students taking up entrepreneurship	-	-	-
Placement Index(P) = $((X + Y + Z)/FS) * 100$:	72.22	67.54	83.50

Average Placement Index = $(P_1 + P_2 + P_3)/3$: 74.42

PART C- Faculty Details in Department and Allied Departments

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

C1: Faculty details of Department and Allied Departments

The faculty information of the Department for CAY (2025–26), CAYm1 (2024–25), and CAYm2 (2023–24) is attached in Annexure–A

C2: Student-Faculty Ratio (SFR)**Table No. C2.1:** Student-faculty ratio.

Year	CAY (2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG.B (ECE-2 nd Year)	114	114	114
UG.C (ECE-3 rd Year)	114	114	114
UG.D (ECE- 4 th Year)	114	114	114
UG (UG.B+ UG.C+UG.D)	342	342	342
PG.A (VLSI-1st Year)	24	24	24
PG.A (VLSI-2nd Year)	24	24	24
PG (PG.A+PG.B)	48	48	48
DS=Total no. of students in all UG and PG programs in the Department	390	390	390
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)	390	390	390
DF=Total no. of faculty members in the Department	18+1 = 19	18+1 = 19	16+2= 18
AF= Total no. of faculty members in the allied Departments	-	-	-
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	19	19	18
FF=The faculty members in F who have a 100% teaching load in the first-year courses	-	-	-
Student Faculty Ratio (SFR)=S/(F-FF)	390/19 = 20.52	390/19 = 20.52	390/18 = 21.66
Average SFR for 3 years	20.90		

C3: Faculty Qualification**Table No. C3.1:** Faculty qualification.

Year	X	Y	RF	FQ = 2.5 x [(10X + 4Y) / RF]]
2025-26 (CAY)	19	0	19.00	25
2024-25 (CAYm1)	18	1	19.00	24.21
2023-24 (CAYm2)	17	1	19.00	22.89

Average Assessment: 24.03

C4: Faculty Cadre Proportion

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

Year	Professors		Associate Professors		Assistant Professor	
	Required RF1	Available AF1	Required RF2	Available AF2	Required RF3	Available AF3
CAY (2025-26)	2.00	2.00	4.00	6.00	13.00	10.00
CAYm1 (2024-25)	2.00	2.00	4.00	6.00	13.00	10.00
CAYm2 (2023-24)	2.00	1.00	4.00	7.00	13.00	8.00
Average Numbers	2.00	1.66	4.00	6.33	12.67	9.33

Cadre Ratio Marks [(AF1 / RF1) + [(AF2 / RF2) * 0.6] + [(AF3 / RF3) * 0.4]] * 12.5 :20.00

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 (2024-25)

S.No	Name of the Person	Designation	Organization	Name of the Course	Name of hours handled
1					

CAYm2 (2023-24)

S.No	Name of the Person	Designation	Organization	Name of the Course	Name of hours handled
1					

CAYm3 (2022-23)

S.No	Name of the Person	Designation	Organization	Name of the Course	Name of hours handled
1					

C6. Academic Research

TableNo.C6.1: Faculty publication details.

S.No.	Item	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)
1	No. of peer reviewed journal papers	79	73	83

	published			
2	No. of peer reviewed conference papers published	58	70	41
3	No. of books/book chapters published	17	7	9

C7. Sponsored Research Project

TableNo.C7.1: List of sponsored research projects received from external agencies.

2024-25 (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)
Dr. Mayur Katwe		Electronic s and Communic ation	Towards Sixth Communication via Reconfigurable Intelligent Surfaces aided Integrated Sensing and Communication	TTDF-TCOE (Department of Telecommu nications)	3 years	44.35
Dr. A.S. Raghuvanshi		Electronic s and Communic ation	Development, Implementation and ON Filed Testing of an Electronic hand-held device for live electric wire in the vicinity (10 m to 20 m range) and sound off an alarm to alert the user	World Wide Fund for Nature-India (WWF)	1 year	5.0
Amount received						49.35 Lakh

2023-24 (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 projec	Amount (Lacs)
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Dr. Siddharth Deshmukh	NA	Department of Electronics and Communication Engineering	Algorithms for freshness of CSIT in 5G and Beyond Wireless Communication Networks	ANRF (SERB)	3 years	23.25
Dr. Siddharth Deshmukh	NA	Department of Electronics and Communication Engineering	Statistical Characterization and Deterministic Bounds on Age of Information in Multi-access Wireless Networks	ANRF (SERB)	3 years	6.6
Dr. Debora Muchahary	NA	Department of Electronics and Communication Engineering	Empowering PV revolution through a detailed study of perovskite/c-Si tunnel oxide passivated contact (Top CON) tandem solar cell	SERB	3 years	22.22
Amount received						52.07 Lakh

2022-23 (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)
Dr. Debora Muchahary	-	Department of Electronics and Communication Engineering	Inclusive Fintech-Bridging The Gap in Communities through Order Financing	IBITF of IIT Bhilai	2 years	17.15

		g				
Dr. G.P.S.C. Mishra	Dr. B. Acharya	Department of Electronics and Communication Engineering	Design and Development of System on Chip based next generation IoT System for Industry 4.0 with Functional Safety and Security Features	Ministry of Electronics and Information Technology (MeitY)	5 years	96.11
Amount received						113.26 Lakh

Total Amount (Lacs) Received for the Past 3 Years: 214.68

- 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

2024-25 (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.

2023-24 (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.

2022-23 (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.

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

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.

2024-25 (CAYm1)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount (Lacs)	Amount Utilized (Lacs)	Outcomes of the project
Dr. Sukeshni Turkey	Implementation of TFETs at Circuit Level for Memory Designing and Application in IOTs	2024- 2027	5.00	4.99	Software purchased and Installation is done in the Dept. Lab
Amount received (Rs.): 5.00					

2023-24 (CAYm2)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount (Lacs)	Amount Utilized (Lacs)	Outcomes of the project
Dr. Ashish Kumar	Simulation and fabrication of an AlGaIn/GaN hetero structure-based HEMTs for biosensing applications	2 years	5.00	0.50	GaN MOS HEMT Device
Amount received (Rs.): 5.00					

2022-23 (CAYm3)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount (Lacs)	Amount Utilized (Lacs)	Outcomes of the project
Amount received (Rs.): 0					

Total amount (Lacs) received for the past 3 years: 10.00

PART D: Laboratory Infrastructure in the Department

(Data to be filled in for the Department)

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

TableNo.D1.1: List of laboratories and technical manpower

S . N .	Name of the Laborato ry	Numb er of stude nts per setup (Bath Size)	Name of the Important Equipment	Weekly utilizati on status (all the courses for which the lab is utilized)	Technical Manpower Support		
					Name of the Technical staff	Des ign atio n	Qualifi cation
1	Analog Circuits Laboratory	30	DSO (100MHz), Workbench Along With DSO(50MHz), Function Generator, Variable DC & AC Power Supply, LCR Meter Different Amplifier and Oscillator Trainer	8 hours per week	Shri Dharam Lal	Sen ior Tec hnic ian	M.Tech.
2	Digital and Microproces sor Laboratory	30	Trainer kits and instruments for basic digital electronics and microprocessor courses, Desktop computers, DSO (100 MHz)	8 hours per week	Shri. Rajesh Sharma	Tec hnic al Ass ista nt (SG -I)	AMIEE
3	Communicat ion Laboratory	30	Analog modulation trainer kits, Digital Communication trainer kits, Digital storage oscilloscope, Spectrum analyzer Function	12 hours per week	Shri. Rajesh Sharma Dhaneshwar Prasad Verma	Techni cal Assista nt (SG- I) Lab orato ry	AMIETE ITI

			generators Work Station IoT trainee			Ass ista nt	
4	Digital Signal Processing Laboratory	30	CRO, Function generators, TI C6713 DSK, Programmable function generator, Spectrum analyzer, ARM cortex boards Computers for simulation Matlab	8 hours per week	Shri. Khagesh Kumar Sahu	Techni cal Assista nt	Diploma
5	Embedded Systems Laboratory	30	Desktop computers, Texas Instruments ASLKv2010 Starter kit ASLKv2010 Starter Kit MSP430 Launch Pads MSP5529/5438 Experimenter Boards AM335x	8 hours per week	Shri Jeevan Lal Dhruw	Techni cal Assista nt (SG-I)	Diplom a
6	VLSI and Microelectronics Laboratory	30	Microwave test benches, Microwave power meter, Ansys research HF package, PCB prototyping machine Vector network analyzer (18 GHz) Open a	8 hours per week	Shri. Rajesh Sharma Omprakash Sahu	Techni cal Assista nt (SG-I) Lab orat ory Ass ista nt	AMIETE ITI
7	VLSI and Microelectronics Laboratory	30	Cadence IC6.15, Mentor Graphics Version10.5_4, Synopsys, Vivado and Xilinx Version 2016.2, Silvaco, SPARTAN 3AN VERTEX 6 ARTIX 7 Altium Nano	8 hours per week	Dhaneshwar Prasad Verma	Labora tory Assista nt	ITI
8	Computer Vision	30	Machine Vision System, Desktop	8 hours per	Sandhya Joshi	Tec hnic	Diplom a

	Laboratory		Computer (Lenovo, Dell), NI Image Processing Smart Camera Equipment's Digital SLR Camera with lens&	week		al Ass ista nt	
9	Basic VLSI Laboratory	30	Desktop computers, Cadence IC6.15, Mentor Graphics Version10.5_4, Synopsys, Vivado and Xilinx Version2016 2 Silvaco	8 hours per week	Shri Jeevan Lal Dhruw	Lab orat ory Ass ista nt	Diplom a

D2. Safety Measures in Laboratories

TableNo.D2.1: List of various safety measures in laboratories.

S. No.	Name of the laboratory	Basic safety measures	Lab specific safety measures
1	Analog Circuits Laboratory	Students are informed of the Dos and Don'ts in the laboratory.	Fire extinguisher, MCB
2	Digital and Microprocessor Laboratory		Fire extinguisher, MCB
3	Communication Laboratory		Fire extinguisher, MCB
4	Digital Signal Processing Laboratory		Fire extinguisher, MCB
5	Embedded Systems Laboratory		Fire extinguisher, MCB
6	Microwave Laboratory		Fire extinguisher, MCB
7	VLSI and Microelectronics Laboratory		Fire extinguisher, MCB
8	Computer Vision Laboratory		Fire extinguisher, MCB
9	Basic VLSI Laboratory		Fire extinguisher, MCB
10	Microelectronics Device Fabrication lab (FIST)		Fire extinguisher, MCB, First aid box, Proper chemical fume exhaust system.
11	5G Laboratory		Fire extinguisher, MCB

12	Project lab/Electronics workshop		Fire extinguisher, MCB
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D3. Project Laboratory/Research Laboratory

S. No.	Name of the laboratory
1	Project Laboratory / Electronics Workshop: In this lab, UG and PG students perform hardware and software related projects. This lab is equipped with PCB making setup, computers, DSO, function generators etc.
2	5G Use Case Lab: In "100 5G Use Case Labs" scheme, this lab was funded by the Department of Telecommunications (DoT), Government of India. The 5G Use Case Lab at NIT Raipur aims to achieve several significant goals. It will foster competencies and engagement in 5G technologies among students and the academic community. The lab will support projects at both undergraduate and postgraduate levels, providing students with hands-on experience in a 5G environment. Moreover, it will promote academia-industry engagement to ideate and develop innovative 5G use cases. Additionally, the lab will offer local access to a 5G test setup for startups and Micro, Small, and Medium Enterprises (MSMEs) in the vicinity of the institution. Ultimately, it will contribute to making the Indian academia and startup ecosystem ready for the upcoming 6G revolution.
3	Semiconductor devices characterization lab (Sponsored by FIST): This lab has Thermal evaporation with sputtering system, Chemical vapor deposition system, Electronic balance, Deionized water system, Organic and inorganic fume hood, Spin coater, Dip coater.
4	Center of excellence setup by Telecom sector skill council This CoE was set up through MoU between Telecom Sector Skill Council (TSSC) and NIT Raipur for practical training on the domain of information and communication technology, cyber security, electronics including technical, services and allied fields.

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	Sancti oned intake	No. of required faculty	No. of faculty members in Basic Science	No. of faculty members in	Percentage= No. of faculty members ((NS1*0.8) +(NS2*0.2))/ (No.
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	of all UG progra ms(S4)	(RF4=S4/2 0)	Courses & Humanities and Social Sciences including Management courses (NS1)	Engineering Science Courses (NS2)	of required faculty (RF4)); Percentage=((NS 1*0.8) +(NS2*0.2))/RF
2025- 26(CAY)	1019	51	36	28	67.5
2024-25 (CAYm1)	1019	51	53	23	92
2023-24 (CAYm2)	1019	51	41	17	71

E2. Budget Allocation, Utilization, and Public Accounting at Institute Level

TableNo.E2.1: Budget and actual expenditure incurred at Institute level.

Items	Budgete d in 2025- 2026	Actual Expense s in 2025- 2026	Budgete d in 2024- 2025	Actual Expense s in 2024- 2025	Budgete d in 2023- 2024	Actual Expense s in 2023- 2024	Budgete d in 2022- 2023	Actual Expense s in 2022- 2023
Infrastructure Built-Up	2520.00	179.70	500.00	156.64	450.00	54.50	200.00	110.73
Library	350.00	278.65	225.00	224.56	175.00	176.22	200.00	165.03
Laboratory equipment	1230.00	546.38	400.00	459.22	600.00	271.87	500.00	258.90
Teaching and non-teaching staff salary	9545.00	8288.00	8300.00	8223.51	7200.00	6835.89	6300.00	6069.64
Outreach Programs	-	-	-	-	-	-	-	-
R&D	-	-	-	-	-	-	-	-
Training, Placement and Industry linkage	-	-	-	-	-	-	-	-
SDGs	-	-	-	-	-	-	-	-

Entrepreneurship	-	-	-	-	-	-	-	-
Others, specify	9760.43	7748.07	7821.98	7785.07	6520.00	5836.33	5553.00	5361.28
Total	23405.43	17040.80	17246.98	16849.00	14945.00	13174.81	12753.00	11965.58

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	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	108.20	72.28	162.73	41.69	40.52	19.85	61.15	40.85
Software	17.30	18.00	9.38	9.38	19.42	19.41	32.94	21.21
SDGs	-	-	-	-	-	-	-	-
Support for faculty development	-	-	-	-	-	-	-	-
R & D	-	-	-	-	-	-	-	-
Industrial Training, Industry expert, Internship	-	-	-	-	-	-	-	-
Miscellaneous Expenses*	35.39	34.75	5.988	5.938	6.199	5.765	2.58	2.556
Total	160.89	125.03	178.098	57.008	66.139	45.025	96.67	64.616

Compliance Status to Pre-Visit Qualifiers

S. N.	Pre-Visit Qualifiers	Current Status	Compliance Status (Complied/Not Complied)
1	Whether approval of the competent authority (Approval of AICTE/UGC/BoG of Universities/ Deemed Universities etc.) for the program under consideration has been obtained for the previous five years, starting from the current academic year	Yes	Complied
2	Whether the Student Faculty Ratio (SFR) in the Department and allied Departments is less than or equal to 25:1, averaged over three academic years: Current Academic Year (CAY), Current	Yes (20.9:1)	Complied

	Academic Year Minus One (CAYm1), and Current Academic Year Minus Two (CAYm2)		
3	Case 1: If the Department/School is not running multiple UG (Engineering) programs and does not have allied departments, which are running undergraduate engineering programs, then the program under consideration needs either 2 Professors or 1 Professor and 1 Associate Professor on a regular basis with Ph.D. degree in the current academic year (CAY) and the previous academic year (CAYm1). Case 2: If the Department/School, including allied departments, is running multiple UG (Engineering) programs, the program under consideration needs either 2 Professors or 1 Professor and 1 Associate Professor on a regular basis with Ph.D. degree in CAY and CAYm1. Additionally, the remaining UG (Engineering) programs (N*) need "N" Professors or "N" Associate Professors in the Department/ School/ Allied departments on a regular basis with Ph.D. degree in CAY and CAYm1 in total.	Yes	Complied
4	Whether the number of faculty having Ph.D degree available in the Department & allied Departments is greater than or equal to 20% of the required number of faculty averaged over two academic years i.e. Current Academic Year (CAY) and Current Academic Year Minus One (CAYm1)	Yes	Complied
5	Whether two batches have passed out in the program under consideration	Yes	Complied
6	Whether the HOD of the department in which the program under consideration is running is appointed on regular basis and possesses PhD degree in the Current Academic Year (CAY).	Yes	Complied

Declaration

i)I hereby certify that the information provided in the pre-qualifier is true and correct to the best of my knowledge. In case, it is found that institution has deliberately provided false/incorrect information, the NBA reserves the right to take necessary action as per its rules and procedures.

Annexure-A

Table No. C1: Faculty details CAY (2025-2026)

S.No.	Name of the Faculty	PAN No.	APAAR Faculty ID*(if any)	Highest Degree	University	Area of Specialization	Date of Joining in this Institute	Experience in year in this Institute	Designation at the time of Joining in this Institute	Present Designation	designated as Professor/ associate Professor	Nature of Association (Regular/Contract /Ad hoc)	If Contractual Mention Full Time or (Part time or hourly based)	Currently Associated (Y/N)	Date of Leaving if any (In case currently associated is "NO")
1	Prof. S. Verma	ABMP V9750F	NA	Ph D	NIT Raipur	Digital system design, image processing, computer & communication networks, distributed processing	08/10/1990	35	Lecturer	Professor (HAG)	02/12/2024	Regular	NA	Y	NA
2	Prof. G.P.S.C. Mshra	AGEP M8582H	NA	Ph D	Jadavpur University, Kolkata	Electronic Devices and VLSI	21/06/2018	7	Associate Professor	Professor	21/11/2023	Regular	NA	Y	NA
3	Dr. B. Acharya	AHIPA 6221G	NA	Ph D	NIT Rourkela	Cryptography, Signal Processing, Information Security	27/02/2009	16	Assistant Professor	Associate Professor	22/10/2022	Regular	NA	Y	NA
4	Dr. T.			Ph	HBNI	Multimedia Security,	18/04/			Asso	22/10/	Regu		Y	

	Menpal	AMHP M0839 Q	NA	D	(BARC , Mumba i	Computer Vision, Image Forensics, Face Recognition and Understanding and Biomedical Image Processing	2013	13	Assis tant Profe ssor	ciate Profe ssor	2022	lar	NA		NA
5	Dr. AS Raghuva nshi	CAYPS 9594P	NA	Ph D	MNNIT Allahab ad	Wireless Sensor Networks, Communication, AI/ML	17/06/ 2015	10	Assis tant Profe ssor	Asso ciate Profe ssor	22/10/ 2022	Regu lar	NA	Y	NA
6	Dr. B. Patnaik (HOD)	AOYPP 2764A	NA	Ph D	IIT Bhuban eswar	Optical Communication Engineering, Non- linear optics, IsOWC system design, THz signal processing	31/10/ 2022	3	Asso ciate Profe ssor	Asso ciate Profe ssor	31/10/ 2022	Regu lar	NA	Y	NA
7	Dr. C. Sahu	BWIPS 7884R	NA	Ph D	PDPM IIITDM Jabalpu r	VLSI and Microelectronics	25/01/ 2023	3	Asso ciate Profe ssor	Asso ciate Profe ssor	25/01/ 2023	Regu lar	NA	Y	NA
8	Dr. S. Deshmu kh	AKZP D1750 H	NA	Ph D	Kansas State Univers ity	Wireless Communication Statistical Signal Processing Optimization theory Machine Learning	03/05/ 2023	3	Asso ciate Profe ssor	Asso ciate Profe ssor	03/03/ 2023	Regu lar	NA	Y	NA
9	Dr. S. Majumd er	AUWP M9889 R	NA	Ph D	NIT Raipur	Wireless communication and signal processing.	18/08/ 2008	17	Assis tant Profe ssor	Lectu rer	NA	Regu lar	NA	Y	NA

10	Dr. A. Gupta	AWQP G3178F	NA	Ph D	IIT Dhanbad	Dielectric resonator antennas, 5G MIMO antennas, circularly polarized DRAs, and antennas for IoT applications.	08/05/2013	13	Assistant Professor	Assistant Professor	NA	Regular	NA	Y	NA
11	Dr. S.K. Saha	AWJPS 1843G	NA	Ph D	NIT Durgapur	Signal Processing, Metaheuristic Optimization, Filter Design	15/05/2015	11	Assistant Professor	Assistant Professor	NA	Regular	NA	Y	NA
12	Dr. A. Naugarhiya	AHGP N1856L	NA	Ph D	PDPM IITDM J	VLSI and Microelectronics	31-12-2015	10	Assistant Professor	Assistant Professor	NA	Regular	NA	Y	NA
13	Dr. K.K. Nigam	APIPN 6213R	NA	Ph D	PDPM IITDM Jabalpur	VLSI Devices and Circuits, FETs Based Biosensor, Strain Analysis and Ferroelectrics Based FETs	28.12.2022	3	Assistant Professor	Assistant Professor	NA	Regular	NA	Y	NA
14	Mr. S. Chakraborty	AKJPC 6266D	NA	M. E	Jadavpur University	Fuzzy Systems, Antenna Design	18/08/2008	17	Lecturer	Assistant Professor	NA	Regular	NA	Y	NA
15	Dr. D. Muchahary	BYAP M8498P	NA	Ph D	NIT Arunachal Pradesh	Semiconductor devices and Solar cell	04/08/2021	4	Assistant Professor	Assistant Professor	NA	Regular	NA	Y	NA
16	Dr. A. Kumar	COPPK 1574Q	NA	Ph D	MNIT, Jaipur	MEMS and Nanoelectronics Devices, Materials for Sensors and Actuators	09/11/2022	3	Assistant Professor	Assistant Professor	NA	Regular	NA	Y	NA

17	Dr. M. Katwe	DCPPK 1007M	NA	Ph D	VNIT Nagpur	Wireless communication	9/2/2024	1.5	Assistant Professor	Assistant Professor	NA	Regular	NA	Y	NA
18	Dr. S. Tirkey	APBPT 1660D	NA	Ph D	IIT Jabalpur	Semiconductor Devices and circuits	09/02/2024	2	Assistant Professor	Assistant Professor	NA	Regular	NA	Y	NA
19	Dr. Prateek Dolas	AXXP D8408 M	NA	Ph D	IIT Roorkee	Signal Processing for Communication Systems	11/07/2019	2	Assistant Professor	Assistant Professor	NA	Contract	Full Time	Y	NA

Table No. C1: Faculty details CAYm1 (2024-2025)

S.No.	Name of the Faculty	PAN No.	APAAR Faculty ID*(if any)	Highest Degree	University	Area of Specialization	Date of Joining in this Institute	Experience in year in this Institute	Designation at the time of Joining in this Institute	Present Designation	designated as Professor/ associate Professor	Nature of Association (Regular/Contract /Ad hoc)	If Contractual Mention Full Time or (Part time or hourly based)	Currently Associated (Y/N)	Date of Leaving if any (In case currently associated is “ NO”)
1	Prof. S. Verma	ABMPV 9750F	NA	Ph D	NIT Raipur	Digital system design, image processing, computer & communication networks, distributed processing	08/10/1990	34	Lecturer	Professor (HAG)	02/12/2024	Regular	NA	Y	NA
2	Prof. G.P.S.C. Mshra	AGEPM 8582H	NA	Ph D	Jadavpur University, Kolkata	Electronic Devices and VLSI	21/06/2018	6	Associate Professor	Professor	21/11/2023	Regular	NA	Y	NA
3	Dr. B. Acharya	AHIPA6 221G	NA	Ph D	NIT Rourkela	Cryptography, Signal Processing, Information Security	27/02/2009	16	Assistant Professor	Associate Professor	22/10/2022	Regular	NA	Y	NA

4	Dr. T. Meenpal (HOD)	AMHP M0839Q	NA	Ph D	HBNI (BARC) , Mumbai	Multimedia Security, Computer Vision, Image Forensics, Face Recognition and Understanding and Biomedical Image Processing	18/04/2013	11	Assistant Professor	Associate Professor	22/10/2022	Regular	NA	Y	NA
5	Dr. AS Raghuvaran	CAYPS9594P	NA	Ph D	MNNIT Allahabad	Wireless Sensor Networks, Communication , AI/ML	17/06/2015	9	Assistant Professor	Associate Professor	22/10/2022	Regular	NA	Y	NA
6	Dr. B. Patnaik	AOYPP 2764A	NA	Ph D	IIT Bhubaneswar	Optical Communication Engineering, Non-linear optics, IsOWC system design, THz signal processing	31/10/2022	1	Associate Professor	Associate Professor	31/10/2022	Regular	NA	Y	NA

7	Dr. C. Sahu	BWIPS7884R	NA	Ph D	PDPM IITDM Jabalpur	VLSI and Microelectronics	25/01/2023	1	Associate Professor	Associate Professor	25/01/2023	Regular	NA	Y	NA
8	Dr. S. Deshmukh	AKZPD1750H	NA	Ph D	Kansas State University	Wireless Communication Statistical Signal Processing Optimization theory Machine Learning	03/05/2023	1	Associate Professor	Associate Professor	03/03/2023	Regular	NA	Y	NA
9	Dr. S. Majumder	AUWP M9889R	NA	Ph D	NIT Raipur	Wireless communication and signal processing.	18/08/2008	16	Assistant Professor	Lecturer	NA	Regular	NA	Y	NA
10	Dr. A. Gupta	AWQPG3178F	NA	Ph D	IIT Dhanbad	Dielectric resonator antennas, 5G MIMO antennas, circularly polarized DRAs, and antennas for IoT applications.	08/05/2013	12	Assistant Professor	Assistant Professor	NA	Regular	NA	Y	NA

11	Dr. S.K. Saha	AWJPS1843G	NA	Ph D	NIT Durgapur	Signal Processing, Metaheuristic Optimization, Filter Design	15/05/2015	9	Assistant Professor	Assistant Professor	NA	Regular	NA	Y	NA
12	Dr. A. Naugarhiya	AHGPNI1856L	NA	Ph D	PDPM IITDM J	VLSI and Microelectronics	31-12-2015	9	Assistant Professor	Assistant Professor	NA	Regular	NA	Y	NA
13	Dr. K.K. Nigam	APIPN6213R	NA	Ph D	PDPM IITDM Jabalpur	VLSI Devices and Circuits, FETs Based Biosensor, Strain Analysis and Ferroelectrics Based FETs	28/12/2022	1	Assistant Professor	Assistant Professor	NA	Regular	NA	Y	NA
14	Mr. S. Chakraborty	AKJPC6266D	NA	M. E	Jadavpur University	Fuzzy Systems, Antenna Design	18/08/2008	16	Lecturer	Assistant Professor	NA	Regular	NA	Y	NA
15	Dr. D. Muchahary	BYAPM8498P	NA	Ph D	NIT Arunachal Pradesh	Semiconductor devices and Solar cell	04/08/2021	3	Assistant Professor	Assistant Professor	NA	Regular	NA	Y	NA

16	Dr. A. Kumar	COPPK1574Q	NA	Ph D	MNIT, Jaipur	MEMS and Nanoelectronics Devices, Materials for Sensors and Actuators	09/11/2022	1	Assistant Professor	Assistant Professor	NA	Regular	NA	Y	NA
17	Dr. M. Katwe	DCPPK1007M	NA	Ph D	VNIT Nagpur	Wireless communication	9/2/2024	0	Assistant Professor	Assistant Professor	NA	Regular	NA	Y	NA
18	Dr. S. Tirkey	APBPT1660D	NA	Ph D	IIIT Jabalpur	Semiconductor Devices and circuits	09/02/2024	0	Assistant Professor	Assistant Professor	NA	Regular	NA	Y	NA
19	Dr. Prateek Dolas	AXXPD8408M	NA	Ph D	IIT Roorkee	Signal Processing for Communication Systems	11/07/2019	6	Assistant Professor	Assistant Professor	NA	Contract	Full Time	Y	NA

Table No. C1: Faculty details CAYm2 (2023-2024)

S.No.	Name of the Faculty	PAN No.	APAAR Faculty ID*(if any)	Highest Degree	University	Area of Specialization	Date of Joining in this Institute	Experience in year in this Institute	Designation at the time of Joining in this Institute	Present Designation	The Date on which designated as Professor/	Nature of Association (Regular/Contract /Ad hoc)	If Contractual Mention Full Time or (Part time or hourly based)	Currently Associated (Y/N)	Date of Leaving if any (In case currently associated is “ NO”)
1	Prof. S. Verma	ABM PV97 50F	NA	Ph D	NIT Raipur	Digital system design, image processing, computer & communication networks, distributed processing	08/10 /1990	33	Lecturer	Professor (HAG)	02/12/2024	Regular	NA	Y	NA
2	Prof. G.P.S.C. Mshra	AGE PM85 82H	NA	Ph D	Jadavpur University, Kolkata	Electronic Devices and VLSI	21/06 /2018	5	Associate Professor	Professor	21/11/2023	Regular	NA	Y	NA
3	Dr. B. Acharya	AHIP A622 1G	NA	Ph D	NIT Rourkela	Cryptography, Signal Processing, Information Security	27/02 /2009	16	Assistant Professor	Associate Professor	22/10/2022	Regular	NA	Y	NA
4	Dr. T. Meenpal (HOD)	AMH PM08 39Q	NA	Ph D	HBNI (BARC), Mumbai	Multimedia Security, Computer Vision, Image Forensics, Face Recognition and Understanding and Biomedical Image	18/04 /2013	10	Assistant Prof	Associate Professor	22/10/2022	Regular	NA	Y	NA

						Processing			essor						
5	Dr. AS Raghuvanshi	CAY PS9594P	NA	Ph D	MNNIT Allahabad	Wireless Sensor Networks, Communication, AI/ML	17/06/2015	8	Assistant Professor	Associate Professor	22/10/2022	Regular	NA	Y	NA
6	Dr. B. Patnaik	AOY PP2764A	NA	Ph D	IIT Bhubaneswar	Optical Communication Engineering, Non-linear optics, IsOWC system design, THz signal processing	31/10/2022	0.5	Associate Professor	Associate Professor	31/10/2022	Regular	NA	Y	NA
7	Dr. C. Sahu	BWI PS7884R	NA	Ph D	PDPM IITDM Jabalpur	VLSI and Microelectronics	25/01/2023	0.5	Associate Professor	Associate Professor	25/01/2023	Regular	NA	Y	NA
8	Dr. S. Deshmukh	AKZ PD1750H	NA	Ph D	Kansas State University	Wireless Communication Statistical Signal Processing Optimization theory Machine Learning	03/05/2023	0.3	Associate Professor	Associate Professor	03/03/2023	Regular	NA	Y	NA
9	Dr. S. Majumder	AUW PM9889R	NA	Ph D	NIT Raipur	Wireless communication and signal processing.	18/08/2008	15	Assistant Professor	Lecturer	NA	Regular	NA	Y	NA

10	Dr. A. Gupta	AWQ PG31 78F	NA	Ph D	IIT Dhanbad	Dielectric resonator antennas, 5G MIMO antennas, circularly polarized DRAs, and antennas for IoT applications.	08/05/2013	11	Assistant Professor	Assistant Professor	NA	Regular	NA	Y	NA
11	Dr. S.K. Saha	AWJ PS18 43G	NA	Ph D	NIT Durgapur	Signal Processing, Metaheuristic Optimization, Filter Design	15/05/2015	8	Assistant Professor	Assistant Professor	NA	Regular	NA	Y	NA
12	Dr. A. Naugarhiya	AHG PN18 56L	NA	Ph D	PDPM IITD MJ	VLSI and Microelectronics	31-12-2015	8	Assistant Professor	Assistant Professor	NA	Regular	NA	Y	NA
13	Dr. K.K. Nigam	APIP N621 3R	NA	Ph D	PDPM IITD M Jabalpur	VLSI Devices and Circuits, FETs Based Biosensor, Strain Analysis and Ferroelectrics Based FETs	28/12/2022	0.5	Assistant Professor	Assistant Professor	NA	Regular	NA	Y	NA
14	Mr. S. Chakraborty	AKJP C626 6D	NA	M. E	Jadavpur University	Fuzzy Systems, Antenna Design	18/08/2008	15	Lecturer	Assistant Professor	NA	Regular	NA	Y	NA
15	Dr. D. Muchahary	BYA PM84 98P	NA	Ph D	NIT Arunachal Pradesh	Semiconductor devices and Solar cell	04/08/2021	2	Assistant Prof	Assistant Prof	NA	Regular	NA	Y	NA

									essor	esso r						
16	Dr. A. Kumar	COP PK1574Q	NA	Ph D	MNIT, Jaipur	MEMS and Nanoelectronics Devices, Materials for Sensors and Actuators	09/11/2022	0.5	Assistant Professor	Ass ista nt Prof esso r	NA	Regul ar	NA	Y	NA	
17	Dr. Prateek Dolas	AXX PD8408M	NA	Ph D	IIT Roorkee	Signal Processing for Communication Systems	11/07/2019	2	Assistant Professor	Ass ista nt Prof esso r	NA	Contr act	Full Time	Y	NA	
18	Dr. Dipen Bepari	AWH PB9628G	NA	Ph D	IIT /ISM Dhanbad	Wireless Communication	01/08/2022	1	Assistant Professor	Ass ista nt Prof esso r	NA	Contr act	Full Time	N	29/06/2024	