

e - NBA
NATIONAL BOARD OF
ACCREDITATION

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

Program Name: CIVIL ENGINEERING	Discipline: Engineering & Technology
Level : Under Graduate	Tier: 2
Application No: 10419	Date of Submission: 28-02-2005

PART A- Profile of the Institute

A1.Name of the Institute: DR. B.C. ROY ENGINEERING COLLEGE

Year of Establishment : 2000	Location of the Institute: 235444 N 873417 E
A2. Institute Address: JEMUA ROAD, FUJTHORE, DURGAPUR-713206	
City:DURGAPUR	State:West Bengal
Pin Code:713206	Website:www.bcrec.ac.in
Email:PRINCIPAL@BCREC.ORG	Phone No(with STD Code):0343-2501353
A3. Name and Address of the Affiliating University (if any):	
Name of the University : NIL	City: Nadia
State : West Bengal	Pin Code: 741249
A4. Type of the Institution: Self-Supported Institute	
A5. Ownership Status: Self financing	

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

- No. of UG programs: **10**
- No. of PG programs: **6**

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 of Computer Application	2005	--	Computer Application
2	Engineering & Technology	UG	Civil Engineering	2010	--	Civil Engineering
3	Engineering & Technology	UG	Computer Science and Design	2021	--	Computer Science and Design
4	Engineering & Technology	UG	Computer Science and Engineering	2000	--	Computer Science and Engineering
5	Engineering & Technology	PG	Computer Science and Engineering	2009	--	Computer Science and Engineering
6	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	2022	--	Computer Science and Engineering (Artificial Intelligence and Machine Learning)
7	Engineering & Technology	UG	Computer Science and Engineering (Cyber Security)	2024	--	Computer Science and Engineering (Cyber Security)
8	Engineering & Technology	UG	Computer Science and Engineering (Data Science)	2022	--	Computer Science and Engineering (Data Science)
9	Engineering & Technology	UG	Electrical Engineering	2000	--	Electrical Engineering
10	Engineering & Technology	PG	Electronics & Communication Engineering	2009	--	Electronics and Communication Engineering
11	Engineering & Technology	UG	ELECTRONICS AND COMMUNICATION ENGINEERING	2000	--	Electronics and Communication Engineering
12	Engineering & Technology	UG	Information Technology	2000	--	Information Technology
13	Engineering & Technology	UG	Mechanical Engineering	2003	--	Mechanical Engineering
14	Engineering & Technology	PG	Mechanical Engineering	2012	--	Mechanical Engineering

15	Engineering & Technology	PG	Power Systems	2007	--	Electrical Engineering
16	Management	PG	Master of Business Administration	2004	--	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
Civil Engineering	No	CIVIL ENGINEERING	UG

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/ AUTHO DETAIL
1	CIVIL ENGINEERING	UG	2010	60	Increased from 60 to 120 Decreased from 120 to 60	2013 2018	60	2018	Eastern/ 1-3509307543/2018/EOA
Sanctioned Intake for Last five Years for Civil Engineering									
Academic Year			Sanctioned Intake						
2025-26			60						
2024-25			60						
2023-24			60						
2022-23			60						
2021-22			60						
2020-21			60						

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. Sanjay Sengupta
B. Nature of appointment:	Regular
C. Qualification:	Ph.D

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

B3. Program Details

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2025-26 (CAY)	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)	2021-22 (CAYm4)	2020-21 (CAYm5)	2019-20 (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	21	14	22	14	30	23	30

N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	30	17	13	36	36	43	30
N3=Separate division if any	NA	NA	NA	NA	NA	NA	NA
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.	51	31	35	50	66	60	60

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)	Enrolment Ratio [(N1/N)*100]
2025-26 (CAY)	60	21	0	35
2024-25 (CAYm1)	60	31	0	52
2023-24 (CAYm2)	60	35	0	58

Average [(ER1 + ER2 + ER3) / 3] = 48

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	(2021-22) LYG	(2020-21) LYGm1	(2019-20) 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).	66	66	60
B=No. of students who graduated from the program in the stipulated course duration	60	50	54
Success Rate (SR)= (B/A) * 100	91	76	90

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 86

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)	7.26	6.93	7.31
Y=Total no. of successful students	14	21	14
Z=Total no. of students appeared in the examination	14	22	14
API [X*(Y/Z)]	7.26	6.61	7.31

Average API[(AP1+AP2+AP3)/3] : 7.06

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)	CAYm3 (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)	7.20	7.34	7.37
Y=Total no. of successful students	33	49	65
Z=Total no. of students appeared in the examination	34	50	65
API [X * (Y/Z)]	7	7.19	7.37

Average API [(AP1 + AP2 + AP3)/3] : 7.18

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)	7.61	7.16	8.79
Y=Total no. of successful students	65	61	62
Z=Total no. of students appeared in the examination	65	61	62
API [X*(Y/Z)]:	7.61	7.16	8.79

Average API [(AP1 + AP2 + AP3)/3] : 7.85

B9. Placement, Higher Studies, and Entrepreneurship

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

Item	LYG (2021-22)	LYGm1(2020-21)	LYGm2(2019-20)
FS*=Total no. of final year students	63	61	60
X=No. of students placed	31	46	42
Y=No. of students admitted to higher studies	6	01	1
Z= No. of students taking up entrepreneurship	0	0	0
Placement Index(P) = ((X + Y + Z)/FS) * 100):	58.7	77.04	71.66

Average Placement Index = (P_1 + P_2 + P_3)/3: 71.23 Placement Index Points: 21.5

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 Associ (Regul Contra Ad hoc
1	Dr. Sabyasachi Chandra	xxxxxxx20G	Ph. D	IIT-Kharagpur	Structural Engineering	05/07/2011	12.1	Assistant Professor	Professor	01/09/2016	Regul ar
2	Dr. Sanjay Sengupta	xxxxxxx85L	Ph. D	NIT-Durgapur	Earthquake Engineering	09/01/2014	11.1	Assistant Professor	Professor	01/04/2024	Regul ar
3	Dr. Arijit Kumar	xxxxxxx10K	Ph.D	NIT-Durgapur	Transportation Engineering	23/07/2014	10.7	Assistant Professor	Assistant Professor		Regul ar
4	Dr. Shovan Roy	xxxxxxx08C	Ph.D	NIT-Durgapur	Geotechnical Engineering	27/08/2014	10.6	Assistant Professor	Assistant Professor		Regul ar
5	Md. Hamjala Alam	xxxxxxx90D	M.E/M. Tech	ISM-Dhanbad	Environmental Science and Engineering	21/08/2014	10.6	Assistant Professor	Assistant Professor		Regul ar
6	Mr. Chancha	xxxxxxx65A	M.E/M. Tech	BESU-Shibpur	Structural Engineering	20/01/2015	10.1	Assistant Professor	Assistant Professor		Regul ar

7	Mr. Amit Kotal	xxxxxxx40D	M.E/M. Tech	NIT-Jamshedpur	Structural Engineering	12/01/2016	9.1	Assistant Professor	Assistant Professor		Regular
8	Mrs. Anindita Pan	xxxxxxx06N	M.E/M. Tech	MAKAU T. West	Geotechnical Engineering	12/01/2016	8.3	Assistant Professor	Assistant Professor		Regular
9	Mr. Anupam Kumar Biswas	xxxxxxx37R	Ph.D.	NIT-Durgapur	Structural Engineering	11/02/2016	9	Assistant Professor	Assistant Professor		Regular
10	Mr. Pranoy Roy	xxxxxxx93C	M.E/M. Tech	Bharath University	Structural Engineering	11/02/2016	9	Assistant Professor	Assistant Professor		Regular
11	Dr. Sayantan Dutta	xxxxxxx99P	Ph.D.	NIT-Durgapur	Geotechnical Engineering	12/07/2016	8.7	Assistant Professor	Assistant Professor		Regular
12	Mr. Soumyadip	xxxxxxx24J	Ph.D.	BESU-Shibpur	Transportation Engineering	11/07/2017	7.7	Assistant Professor	Assistant Professor		Regular
13	Mr. Koynndrik Bhattacharje	xxxxxxx43F	M.E/M. Tech	NIT-Durgapur	Structural Engineering	03/07/2018	6.8	Assistant Professor	Assistant Professor		Regular

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
Department1

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

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.B	66	66	66
UG1.C	66	66	66
UG1.D	66	66	66
UG1: CIVIL ENGINEERING	198	198	198
PG1.A	00	00	00
PG1.B	00	00	00
PG1: CIVIL ENGINEERING	00	00	00
DS=Total no. of students in all UG and PG programs in the Department	198	198	198
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)	198	198	198

DF=Total no. of faculty members in the Department	10	11	12
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)	10	11	12
FF=The faculty members in F who have a 100% teaching load in the first-year courses	0	0	0
Student Faculty Ratio (SFR)=S/(F-FF)	SFR1= 19.8	SFR2= 18	SFR3= 16.5
Average SFR for 3 years	SFR= 18.1		

C3. Faculty Qualification

- Faculty qualification index (FQI) = $2.5 \times [(10X + 4Y)/RF]$ 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 document: $(RF=S/20)$.

Table No.C3.1: Faculty qualification.

Year	X	Y	RF	$FQ = 2.5 \times [(10X + 4Y) / RF]$
2025-26(CAY)	04	06	10	$2.5 * [(10 \times 4 + 4 \times 6) / 10] = 16$
2024-25(CAYm1)	04	07	10	$2.5 * [(10 \times 4 + 4 \times 7) / 10] = 17$
2023-24(CAYm2)	03	09	10	$2.5 * [(10 \times 3 + 4 \times 9) / 10] = 16.5$

C4. Faculty Cadre Proportion

- Faculty Cadre Proportion is 1(RF1): 2(RF2): 6(RF3)
- RF1= No. of Professors required = $1/9 \times$ 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 = $2/9 \times$ 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 = $6/9 \times$ 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	Professor		Associate Professor		Assistant Professor	
	Required (RF1)	Available (AF1)	Required (RF2)	Available (AF2)	Required (RF3)	Available (AF3)
CAY (2025-26)	01	01	02	00	06	9
CAYm1 (2024-25)	01	01	02	00	06	10
CAYm2 (2023-24)	01	00	02	01	06	11
Average Numbers	RF1=1	AF1=0.67	RF2=2	AF2=0.33	RF3=6	AF3=10

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	Ms. Madhurima Ray Barman	Assistant Professor	Dr. B C Roy Engineering College, Durgapur	Biology for Engineers (CE(ES)301)	42.00
2	Ms. Madhurima Ray Barman	Assistant Professor	Dr. B C Roy Engineering College, Durgapur	Life Science (CE(ES)393)	84.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Ms. Madhurima Ray Barman	Assistant Professor	Dr. B C Roy Engineering College, Durgapur	Biology for Engineers (CE(ES)301)	42.00
2	Ms. Madhurima Ray Barman	Assistant Professor	Dr. B C Roy Engineering College, Durgapur	Life Science (CE(ES)393)	84.00

(CAYm1)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Ms. Madhurima Ray Barman	Assistant Professor	Dr. B C Roy Engineering College, Durgapur	Biology for Engineers (CE(ES)301)	42.00
2	Ms. Madhurima Ray Barman	Assistant Professor	Dr. B C Roy Engineering College, Durgapur	Life Science (CE(ES)393)	84.00

C6. Academic Research

Table No. C6.1: Faculty publication details.

S. No.	Item	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)
1	No. of peer reviewed journal papers published	18	0	7
2	No. of peer reviewed conference papers published	11	25	6
3	No. of books/book chapters published	24	0	2

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

(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

(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

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.

(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
Prof. Pranoy Roy	Mr. Aditya Prasad Roy	Civil Engineering Civil Engineering	Test on Concrete Cube	Bijoy Developers	3 days	0.009
Prof. Pranoy Roy	Mr. Aditya Prasad Roy	Civil Engineering	Test on Concrete Cube	Bijoy Developers	3 days	0.009

Prof. Shovan Roy	Mr. Aditya Prasad Roy	Civil Engineering	Sand Testing	Essar Oil and Gas	3 days	0.06
Prof. Pranoy Roy	Mr. Aditya Prasad Roy	Civil Engineering	Test on Concrete Cube	M/S Raj and Taj Const.	3 days	0.03
Prof. Pranoy Roy	Mr. Aditya Prasad Roy	Civil Engineering	Test on Building Material and Cube	Mitu Enterprise	30 days	0.096
Prof. Hamjala Alam	Mrs. Anindita Sengupta.	Civil Engineering	BOD and COD of Water	Jameela Khatoon	15 days	0.0485
Prof. Pranoy Roy	Mr. Aditya Prasad Roy	Civil Engineering	Test on Concrete Cube 6 sample	Dhanush Construction	3 days	0.018
Prof. Pranoy Roy	Mr. Aditya Prasad Roy	Civil Engineering	Test on Brick 6 sample	Mirtika Construction	3 days	0.018
Prof. Pranoy Roy	Mr. Aditya Prasad Roy	Civil Engineering	Test on Concrete Cube	M/S Raj and Taj Const.	3 days	0.01
Prof. Pranoy Roy	Mr. Aditya Prasad Roy	Civil Engineering	Test on Grout Cube	Deep Enterprise	3 days	0.015
Prof. Shovan Roy		Civil Engineering	Optimum Moisture content and dry density	M/S Shreya Enterprise	3 days	0.0173
Prof. Shovan Roy		Civil Engineering	Optimum Moisture content and dry density	M/S Priya Construction	3 days	0.0173
Prof. Pranoy Roy	Mr. Aditya Prasad Roy	Civil Engineering	Test on Concrete Cube 3 sample	Dhanush Construction	3 days	0.009
Prof. Shovan Roy	Prof. Sayantan Dutta and Mr. Ajitesh Bhattacharya	Civil Engineering	Field Density and degree of compaction	M/S Shreya Enterprise	7 days	0.03933
Prof. Pranoy Roy		Civil Engineering	Test on Concrete Cube 3 sample	Gotum Ghosh (Essar)	3 days	0.009
Prof. Pranoy Roy		Civil Engineering	Test on Concrete Cube 3 sample	Dhanush Construction	3 days	0.009
Prof. Pranoy Roy		Civil Engineering	Test on Concrete Cube 3 sample	M/S Raj and Taj Const.	3 days	0.009
Prof. Pranoy Roy		Civil Engineering	Test on 3 Concrete Cube and 3 Grout Cube	Deep Enterprise	7 days	0.024
Prof. Pranoy Roy	Mr. Aditya Prasad Roy	Civil Engineering	Test on Concrete Cube 12 sample	Gotum Ghosh (Essar)	7 days	0.036
Prof. Shovan Roy	Mr. Ajitesh Bhattacharya	Civil Engineering	Field Density and degree of compaction	M/S Priya Construction	7 days	0.03934
Prof. Pranoy Roy	Mr. Aditya Prasad Roy	Civil Engineering	Test on Fencing Pole and 3 Cube	M/S Priya Construction	10 days	0.028
Prof. Pranoy Roy		Civil Engineering	Test on 3 Concrete Cube	Deep Enterprise	3 days	0.009
Prof. Pranoy Roy	Ajitesh Bhattacharya & Mr. Aditya Prasad Roy	Civil Engineering	Test on Cement and Mortar Cube	Mohanlal Khaitan	3 days	0.046
						Amount received (Rs.):0.60577

(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
Prof. Pranoy Roy	Mr. Aditya Prasad Roy.	Civil Engineering	Test on Paver Block	M/S Sumitra Filling	3 days	0.009
Prof. Hamjala Alam	Mrs. Anindita Sengupta.	Civil Engineering	BOD and COD of Water	Jameela Khatoon	10 days	0.0485

Prof. Pranoy Roy	Mr. Aditya Prasad Roy.	Civil Engineering	Test on Paver Block	Bristi Indian Oil Filling Station	3 days	0.009
Prof. Shovan Roy	Prof. Chanchal Das & Mr. Aditya Prasad Roy	Civil Engineering	Soil Test	Roy Consultancy	30 days	0.1334
Prof. Pranoy Roy	Mr. Aditya Prasad Roy.	Civil Engineering	Test on Concrete Cube	Dr. BC Roy Engineering	3 days	00
Prof. Pranoy Roy	Mr. Aditya Prasad Roy.	Civil Engineering	Test on Concrete Cube	Dhanush Construction	3 days	0.009
Prof. Pranoy Roy	Mr. Aditya Prasad Roy.	Civil Engineering	Test on Concrete Cube	Bijoy Developers	3 days	0.009
Prof. Pranoy Roy	Mr. Aditya Prasad Roy.	Civil Engineering	Test on Concrete Cube	Bijoy Developers	3 days	0.009
						Amount received (Rs.):0.2269

(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
Prof. Pranoy Roy	Prof. Anindita Pan & Mr. Aditya Prasad Roy.	Civil Engineering	Test on Concrete Cube	Pravat Sarkar (Contractor)	3 days	0.0225
Prof. Pranoy Roy	Prof. Anindita Pan & Mr. Aditya Prasad Roy.	Civil Engineering	Test on Concrete Cube	Pravat Sarkar (Contractor)	3 days	0.0375
Prof. Shovan Roy	Prof. Sayantan Dutta, Mr. Aditya Prasad Roy & Mr. Ayan Singha.	Civil Engineering	Standard Proctor Test & Core Cutter Test	Panchanan Dandapath, Tapas Rakshit, Arun Pal, Kartik Chandra Barik, Sankar Chandra Pain, Samar Kumar Das, Bidyut Kumar Sahu, & Kalyan Kumar Sahu.	10 days	0.12
Prof. Pranoy Roy	Mr. Aditya Prasad Roy.	Civil Engineering	Concrete Mix Design M25 & M30	Neo Metalics Limited	30 days	0.238
						Amount received (Rs.):0.418

Total amount (Lacs) received for the past 3 years: 1.25067

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
-	-	-	0.00	0.00	-
			Amount received (Rs.): 0.00		

(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
Sayantan Dutta	Dynamic Characterization of Soil using Self-Developed Miniature Shake Table Supported with		2.84	2.84	Research Paper Communicated
Md. Hamjala Alam	Improvement of The Geotechnical Properties of Soil Using Xanthan Gum Biopolymer		0.064	0.064	Research Paper Communicated
			Amount received (Rs.): 2.904		

(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
Amit Kotal and Shovan Roy	Novel IoT-Based System for in situ moisture content determination for subgrade of a flexible pavement		0.58	0.58	Research Paper Communicated
Pranoy Roy, Anupam Biswas	To Study the Mechanical Properties of Cement Mortar Exposed to the Elevated Temperature		0.42	0.42	Research Paper Communicated
			Amount received (Rs.): 1.00		

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.	Computer Laboratory	30	Computers, Large UPS	100%	Surajit Sen	STA	DCE
2.	Life Science Laboratory	30	Microscope, Biology Kit Box	10% For 2no. group in	Anindita Sengupta	TA	DCE
3.	Fluid Mechanics Laboratory	30	1) Closed circuit apparatus for determination of co-efficient of discharge, co-efficient of contraction. 2) Apparatus for calibration of V-notch, rectangular notch, trapezoidal notch 3) Apparatus for the calibration of orifice meter & venturi meter. 4) Centrifugal Pump 5) Adjustable Channel Apparatus 6) Hydraulic RAM 7) Reciprocating Pump 8) MINOR LOSSES IN PIPE APPARATUS	20% For 4no. group in each batch 8hr	Ajitesh Bhattacharjee	STA	DCE

4.	Solid Mechanics Laboratory	30	1) Universal Testing Machine (Electro-Mechanical Version) 2) Mechanical Extensometer suitable for above 100 Ton UTM, ASI Make. 3) Torsion Testing Machine (Electro-Mechanical Version) 4) Brinell Hardness Tester CAP. 3000 Kgf (Mechanical Version) 5) Rockwell Hardness Tester CAP150 Kgf 6) Spring Testing Machine 7) Pendulum Impact Testing Machine; Charpy & Izod; (Mechanical Version) 8) Fatigue Testing Machine AIM - 664	20% For 4no. group in each batch, 8 hr	Ajitesh Bhattacharjee	STA	DCE
5.	Engineering Geology Laboratory	30	1) Mineral Hand Specimens 2) Ore Minerals 3) Mohs Scale Hardness box, with streak plate 4) Polarising Petro logical Microscope. 5) Wooden Block Model Covering Fold, Fault & Unconformity. 6) Wooden Crystal Models, & Plastic Crystal Models 7) Geological Hammer & magnet.	20% For 4no. groups in each batch 8hr	Anindita Sengupta	TA	DCE
6.	Surveying Laboratory	30	1) 30 Meter Chain, Ranging Rod, Offset Rod, Tape, Optical Square, Vernier Callipers, Cross-staff, Box Sextant 2) Prismatic Compass with Tripod Stand 3) Dumpy Level, Auto Level 4) Transit Theodolite 5) Electronic Digital Theodolite 6) TRIMBLE M3 (5 sec.) Total Station	10% For 2no. group in each batch 4hr	Anindita Sengupta	TA	DCE

7.	Concrete Technology Laboratory	30	1) Digital Compressive Testing Machine 2) Slump Test apparatus 3) Mechanical Sieve Shaker 4) Aggregate Impact Value Test apparatus, Aggregate Crushing Value Test Apparatus 5) Electrically heated oven 6) Electrical Laboratory Concrete Mixture 7) Electrical vibrator for cement testing 8) Auto clave 9) Los Angeles Abrasion Testing Machine 10) Vicats apparatus, Vee - Bee Consistometer 11) Rebound Hammer 12) Compaction Factor Test Apparatus 13) Flexure strength testing machine 14) Longitudinal Compresso meter for 150x300 mm Concrete Cylindrical specimen 15) Lateral Extensometer for 150x300 mm Concrete Cylindrical specimen 16) Le-Chatelier Mould with ISI Marks 17) Compressive testing Machine (hand operated) 2000 kN capacity	60% For 4no. group in each batch 8 hr + Project work Total 18 class per week 15hr	Aditya Prasad Roy	TA	DCE
8.	Soil Mechanics Laboratory	30	1) Field density test (Core cutter with rammer, knife) 2) Sand replacement apparatus 3) Hydrometer 4) Rapid Moisture meter 5) Liquid limit Apparatus 6) Shrinkage limit apparatus 7) Permeability apparatus with overhead tank 8) Pycnometer, Rammer, Proctor mould 9) Electric oven 10) Sieve shaker, Sieve 11) Unconfined compression tester 12) Consolidation Apparatus 13) Triaxial cell stationary bushing with constant pressure system. 14) California bearing ratio test apparatus 15) Standard Penetration Test apparatus (SPT) 16) Direct shear apparatus. 17) Vane shear test apparatus 18) PID controller with oven sensor 19) Relative Density apparatus	50% For 2no. group in each batch 4hr + Project work Total 18 class per week 15hr	Aditya Prasad Roy	TA	DCE

9.	Environmental Engg Laboratory	30	1) pH Meter, 2) Turbidity Meter 3) Conductivity Meter 4) B.O.D Incubator 5) Spectrophotometer 6) Hot Air Oven 7) Muffle Furnace, Electrical Oven 8) Jar Test Apparatus 9) Distilled Water Plant 10) Titration set-up apparatus 11) T.S., T.D.S, T.S.S measuring apparatus with motor. 12) Sound Level Meter 13) Hot Plate, Desiccators	50% For 2no. group in each batch 4hr + Project work Total 18 class per week 15hr	Anindita Sengupta	TA	DCE
10.	Highway & Transportation Laboratory	30	1) Universal Penetrometer 2) Standard Tar Viscometer, 10mm Cup & Ball Valve 3) Ring & Ball Apparatus 4) Flash Point (Open) and Fire Point Pensky Martens Apparatus, Electrical Heating. 5) Marshal Apparatus 50 kN single speed, new model 100 mm dia sample 6) Ductility Testing Machine with Digital Temperature Indicator 7) Sieve Brass Frame 20mm dia x 1.70 mm 8) Water Bath 9) Benkelman Beam 10) Pavement Dynamic Cone Penetrometer with Carrying Case 11) 12) Indirect Tensile Test Attachment for Marshall Test Apparatus 20,000.00 (Instrument) + 3,600.00 (GST) 13) Marshall Mould	50% For 2no. group in each batch 4hr + Project work Total 18 class per week 15hr	Aditya Prasad Roy	TA	DCE
11.	Water Resource Engineering Lab	30	1) GI Pan Evaporimeter with accessories. Pan size 1.22 x 0.255m (dia x height). Conforms generally to IS 5973. Accuracy of reading: 0.1 mm 2) Sunshine Recorder + Set of charts for this. This Campbell-Stokes type is used for accurate measurement of the duration of bright sunshine at a place; 3) Non -recording Rain Gauge conforms to IS 5225-1969, IMD approved 4) Double Ring Soil Infiltrometer 5) Digital Rain Gauge 6) Temperature and Humidity Sensor	20% For 4no. groups in each batch 8hr.	Ajitesh Bhattacharjee	TA	DCE

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1.	Computer Laboratory	Anti-virus software has been installed on the PC Proper earthing has been done in the electrical line. Do's & Don'ts chart is displayed. A First Aid kit is available in the department in case of emergency. Fire extinguishers are kept in an accessible Location. Students are advised to wear rubber-soled shoes and avoid loose clothing. Students are advised not to switch on the Laboratory Machines without permission from the faculty/ technical assistant and not to touch the switchboard with wet hands.
2.	Life Science Laboratory	Wearing a lab coat while using the lab & instructed about Safety Rules. A First Aid kit is available in the department in case of emergency. Fire extinguishers are kept in an accessible Location. Students are advised to wear rubber-soled shoes and avoid loose clothing. Students are advised not to switch on the Laboratory Machines without permission from the faculty/ technical assistant and not to touch the switchboard with wet hands.
3.	Fluid Mechanics Laboratory	Proper earthing has been done on the electric line. Do's & Don'ts chart is displayed. A First Aid kit is available in the department in case of emergency. Fire extinguishers are kept in an accessible Location. Students are advised to wear rubber-soled shoes and avoid loose clothing. Students are advised not to switch on the Laboratory Machines without permission from the faculty/ technical assistant and not to touch the switchboard with wet hands.
4.	Solid Mechanics Laboratory	Proper earthing has been done on the electric line. Wearing rubber shoes while using the lab Do's& Don'ts chart is displayed. A First Aid kit is available in the department in case of emergency. Fire extinguishers are kept in an accessible Location. Students are advised to wear rubber-soled shoes and avoid loose clothing. Students are advised not to switch on the Laboratory Machines without permission from the faculty/ technical assistant and not to touch the switchboard with wet hands.
5.	Engineering Geology Laboratory	Instructed about Safety Rules. A First Aid kit is available in the department in case of emergency. Fire extinguishers are kept in an accessible Location. Students are advised to wear rubber-soled shoes and avoid loose clothing. Students are advised not to switch on the Laboratory Machines without permission from the faculty/ technical assistant and not to touch the switchboard with wet hands.
6.	Surveying Laboratory	Wearing rubber shoes while using the lab Do's & don'ts chart is displayed. A First Aid kit is available in the department in case of emergency. Fire extinguishers are kept in an accessible Location. Students are advised to wear rubber-soled shoes and avoid loose clothing. Students are advised not to switch on the Laboratory Machines without permission from the faculty/ technical assistant and not to touch the switchboard with wet hands.
7.	Concrete Technology Laboratory	Proper earthing has been done in the electric line. Wear rubber shoes and gloves while using the lab Do's & don'ts chart is displayed. Students are advised to wear gloves at the time of using any type of concrete mix. A First Aid kit is available in the department in case of emergency. Fire extinguishers are kept in an accessible Location. Students are advised to wear rubber-soled shoes and avoid loose clothing. Students are advised not to switch on the Laboratory Machines without permission from the faculty/ technical assistant and not to touch the switchboard with wet hands.

8.	Soil Mechanics Laboratory	Proper earthing has been done in the electric line. Wearing rubber shoes and gloves while using the lab Do's & don'ts chart is displayed. Students are advised to wear gloves at the time of using hot air oven. A First Aid kit is available in the department in case of emergency. Fire extinguishers are kept in an accessible Location. Students are advised to wear rubber-soled shoes and avoid loose clothing. Students are advised not to switch on the Laboratory Machines without permission from the faculty/ technical assistant and not to touch the switchboard with wet hands.
9.	Environmental Engineering Laboratory	Wearing Lab coat while using lab & instructed about Safety Rules. Students are advised to wear gloves at the time of using any type of chemicals. A First Aid kit is available in the department in case of emergency. Fire extinguishers are kept in an accessible Location. Students are advised to wear rubber-soled shoes and avoid loose clothing. Students are advised not to switch on the Laboratory Machines without permission from the faculty/ technical assistant and not to touch the switchboard with wet hands.
10.	Highway & Transportation Laboratory	Proper earthing has been done in the electric line. Wearing rubber shoes, helmet, goggles, and gloves while using the lab. Do's & don'ts chart is displayed. A First Aid kit is available in the department in case of emergency. Fire extinguishers are kept in an accessible Location. Students are advised to wear rubber-soled shoes and avoid loose clothing. Students are advised not to switch on the Laboratory Machines without permission from the faculty/ technical assistant and not to touch the switchboard with wet hands.
11.	Water Resource Engineering Lab	Wearing rubber shoes while using the lab Do's & don'ts chart is displayed. A First Aid kit is available in the department in case of emergency. Fire extinguishers are kept in an accessible Location. Students are advised to wear rubber-soled shoes and avoid loose clothing. Students are advised not to switch on the Laboratory Machines without permission from the faculty/ technical assistant and not to touch the switchboard with wet hands.
12.	Project Laboratory	Instructed about Safety Rules. A First Aid kit is available in the department in case of emergency. Fire extinguishers are kept in an accessible Location. Students are advised to wear rubber-soled shoes and avoid loose clothing. Students are advised not to switch on the Laboratory Machines without permission from the faculty/ technical assistant and not to touch the switchboard with wet hands.

D3. Project Laboratory/Research Laboratory

Sr. No	Facility	Utilization
1	Project Laboratory	A dedicated project laboratory for 5 th sem, 6 th sem, 7 th sem, 8 th sem students for project work.
	Ultrasonic Pulse Velocity (UPV)	
	Traffic Surveying Camera	
	Sound level meter MEXTECH SL4014	
	Accelerated Curing Tank	
	Raspberry Pi4 (8GB) Complete (16GB) Kit etc.	
	16-in-1 Sensor kit Compatible with Raspberry Pi 2,3 & 4 Models	
	Arduino OPLA IoT Kit	
	ORANGE 37-in-one sensor kit Compatible with Raspberry Pi 2, 3 & 4 Models	
	Steel fibres, Glass fibres, admixtures for concrete.	
	Dynamic Data Logger.	
	Centrifuge Extractor	

2	Software	ZWCAD-2012
		STAAD.PRO V8i
		STAAD FOUNDATION ADVANCED
		SAP2000 v 24

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 $\frac{((NS1 \times 0.8) + (NS2 \times 0.2))}{(\text{No. of required faculty (RF4)})}$; Percentage= $\frac{((NS1 \times 0.8) + (NS2 \times 0.2))}{RF}$
2023-24(CAYm2)	690	34	25	66	96
2024-25(CAYm1)	840	42	26	67	81
2025-26(CAY)	840	42	24	68	78

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

Items	Budgeted in 2025-26	Actual Expenses in 2025-26 till	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
Infrastructure Built-Up	3,00,00,000	2,26,34,848	2,17,36,000	2,31,94,346	1,30,00,000	2,81,89,417	65,00,000	87,64,935
Library	22,75,500	19,81,626	33,97,000	21,16,995	26,70,000	26,06,893	31,50,000	22,21,767
Laboratory equipment	32,55,000	33,34,100	1,66,10,000	1,67,82,739	1,23,25,000	1,19,45,130	1,10,00,000	1,46,00,437
Teaching and non-teaching staff	24,42,50,000	24,47,04,210	23,21,00,000	24,30,70,793	22,31,90,000	22,24,73,566	20,80,00,000	21,14,90,803
Outreach Programs	2,00,000	10,015	50,000	62,458	20,000	542	50,000	10,866
R&D	3,05,000	1,43,211	17,70,000	5,93,088	11,60,000	7,23,286	61,50,000	18,81,426
Training, Placement and	17,77,000	14,40,252	19,70,000	11,51,640	15,20,000	10,49,506	12,50,000	10,82,973
SDGs	1,10,000	74,134	75,000	96,170	-	-	-	-
Entrepreneurship	1,00,000	-	25,000	7,448	20,000	9,455	-	-
Others, specify	10,82,90,000	13,54,63,370	11,15,08,000	10,98,34,684	8,82,76,000	9,91,85,926	8,46,70,500	8,73,32,551
Total	39,05,62,500	40,97,85,766	38,90,91,000	39,69,10,361	34,21,81,000	36,61,83,721	32,07,70,500	32,73,85,758

E3. Budget Allocation, Utilization, and Public Accounting at Program-Specific Level

Items	Budgeted in 2025-26	Actual Expenses in 2025-26 till	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
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Laboratory equipment ▲▼	2,25,000.00	2,33,640.00	4,25,000.00	3,40,037.00	7,00,000.00	6,86,475.00	1,50,000.00	1,36,361.00
Software	-	-	-	-	-	-	3,00,000.00	2,95,000.00
SDGs	10,000.00	7,953.00	-	-	-	-	-	-
Support for faculty development ▲▼	40,000.00	52,693.00	30,000.00	28,336.00	20,000.00	12,461.00	10,000.00	8,572.00
R & D	50,000.00	33,186.25	80,000.00	71,900.00	80,000.00	46,221.00	4,90,000.00	4,42,750.59
Industrial Training, Industry expert, ▲▼	34,000.00	19,774.00	25,000.00	9,164.00	25,000.00	800.00	20,000.00	12,984.00
Miscellaneous Expenses* ▲▼	2,84,000.00	2,39,017.00	3,37,000.00	2,60,836.00	3,86,000.00	3,49,224.00	2,19,000.00	1,86,638.41
Total	6,43,000.00	5,86,263.25	8,97,000.00	7,10,273.00	12,11,000.00	10,95,181.00	11,89,000.00	10,82,306.00