

NATIONAL BOARD OF ACCREDITATION

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

PART-A: Profile of the Institute

Name of the Program Applied for: UG – Civil Engineering

**A1: Name of the Institute: - Budge Budge
Institute of Technology**

Year of Establishment: 2009

Location of the Institute:

N 22.4569069, E 88.169859

A2: Institute Address: -

City : Kolkata

State : West Bengal

Pin Code : 700138

Website:
<https://www.bbit.edu.in/>

E-mail :
principal@bbit.edu.in

Phone No (with STD Code)
(033) 2482 0676/0670/0641

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

Name of the University : Maulana Abul Kalam Azad University of Technology City : Kolkata

State : West Bengal Pin Code: 741249

A4: Type of the Institution: - (Tick the applicable choice)

Institute of National Importance ☐

Deemed University ☐

University ☐

Autonomous ☐

Non-Autonomous (Affiliated) ☒

Any other (Please specify) * ☐

***Provide Details: Not applicable**

A5: Ownership Status: - (Tick the applicable choice)

Central Government ☐

State Government ☐

Government Aided ☐

Self-financing ☒

Any Other (Please specify) * ☐

***Provide Details:** _____

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

❖ No. of UG programs: 11

❖ No. of PG programs: 03

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 close*	Name of the Department
1	UG	B. Tech (Computer Science and Engineering)	2009		Computer Science and Engineering

2	UG	B. Tech (Electronics & Communication Engineering)	2009		Electronics & Communication Engineering
3	UG	B. Tech (Electrical Engineering)	2009		Electrical Engineering
4	UG	B. Tech (Mechanical Engineering)	2010		Mechanical Engineering
5	UG	B. Tech (Civil Engineering)	2009		Civil Engineering
6	UG	B. Tech (Information Technology)	2020		Information Technology
7	UG	B. Tech (CSE-Artificial Intelligence)	2022		CSE-Artificial Intelligence
8	UG	B. Tech (CSE-Cyber Security)	2022		CSE-Cyber Security
9	UG	B. Tech (CSE- Artificial Intelligence and Data Science)	2026		CSE- Artificial Intelligence and Data Science
10	UG	BBA (Bachelor of Business Administration)	2026		Bachelor of Business Administration
11	UG	BCA (Bachelor of Computer Application)	2026		Bachelor of Computer Application
12	PG	M. Tech (Computer Science and Engineering)	2018		Computer Science and Engineering
13	PG	M. Tech (Power System)	2018		Power System
14	PG	MBA (Master of Business Administration)	2013		Master of Business Administration

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

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

Cluster ID.	Name of the Department	Name of the Program
1.	Computer Science and Engineering	B. Tech (Computer Science and Engineering)
2.	Civil Engineering	B. Tech (Civil Engineering)

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

Cluster ID.	Name of the Department (in table no. A7.1)	Name of allied Departments/Cluster (for table no. A7.1)
1.	Computer Science and Engineering	Information Technology

PART-B: Program information

(Data to be filled in for the program applied for Accreditation)

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

Table No. B1: Program details.

S. N.	Program Name	Year of start	Sanctioned Intake	Increase/decrease in intake, if any	Year of increase/decrease	AICTE Approval Details	Accreditation Status*	No. of times program accredited
1.	UG-Civil Engineering	2009	60	30	2023-24	Eastern/1-10974019944/2022/EOA	Applying first time	NA

* Write applicable one:

- ❖ Applying first time
- ❖ Granted accreditation for 2/3 years for the period (specify period)

- ❖ Granted accreditation for 5/6 years for the period (specify period)
- ❖ Not accredited (specify visit dates, year).
- ❖ Withdrawn (specify visit dates, year)
- ❖ Not eligible for accreditation.

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

A. Name of the HoD: Prof. Sayan Deb

B. Nature of appointment: (Tick the applicable choice)

- ❖ Regular ☒
- ❖ Contract ☐
- ❖ Ad hoc ☐

C. Qualification: (Tick the applicable choice)

- ❖ Ph.D. ☐
- ❖ ME/M.Tech ☒
- ❖ Any other* ☐

***Please provide details:** _____

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

Item (Information is to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	CAY	CAYm1	CAYm2	CAYm3	CAYm4 (LYG)	CAYm5 (LYGm1)	CAYm6 (LYGm2)
N= Sanctioned intake of the program (as per AICTE /Competent authority)	30	30	60	60	120	120	120
N1= Total no. of students admitted in the 1 st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	10	6	5	9	7	16	16
N2= Number of students admitted in 2 nd year in the same batch via lateral entry including leftover seats		9	26	49	60	73	66
N3= Separate division if any							
N4= Total no. of students admitted in the 1 st year via all supernumerary quotas							
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	10	15	31	58	67	89	82

CAY= Current Academic Year.

CAYm1= Current Academic Year Minus 1

CAYm2= Current Academic Year Minus 2.

LYG= Last Year Graduate.

LYGm1= Last Year Graduate Minus 1.

LYGm2= Last Year Graduate Minus 2.

B4: Enrolment Ratio in the First Year**Table No. B4.1:** Student enrolment ratio in the 1st year.

Item (Students enrolled in the First Year on average over 3 academic years (CAY, CAYm1, and CAYm2))	CAY	CAYm1	CAYm2
N= Sanctioned intake of the program in the 1 st year (as per AICTE/Competent authority)	30	30	60
N1= Total no. of students admitted in the 1 st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	10	6	5
N4= Total no. of students admitted in the 1 st year via all supernumerary quotas			
Enrolment Ratio (ER)= (N1+N4)/N	0.33	0.20	0.08
Average ER= (ER_1+ ER_2+ ER_3)/3	0.21		

B5: Success Rate of the Students in the Stipulated Period of the Program**Table No.B5.1:** The success rate in the stipulated period of a program.

Item	LYG	LYGm1	LYGm2
A*= (No. of students admitted in the 1 st year of that batch and those actually admitted in the 2 nd 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).	67	89	82
B=No. of students who graduated from the program in the stipulated course duration	37	65	74
Success Rate (SR)= (B/A)*100	55.22	73.03	90.24
Average SR of three batches ((SR_1+SR_2+ SR_3)/3)	72.83		

Note *: If the value of A in Table No. B5.1 is less than the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2), then the value of A in Table No.B5.1 should be the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2) of Table No.B3.1.

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

Academic Performance	CAYm1	CAYm2	CAYm3
X= (Mean of 1 st 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 1 st year/10)	6.01	5.09	8.88
Y= Total no. of successful students	6	2	9
Z = Total no. of students appeared in the examination	6	3	9
API = X* (Y/Z)	6.01	3.39	8.88
Average API = (API_1 + API_2 + API_3)/3	6.09		

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

Academic Performance	CAYm1	CAYm2	CAYm3
X= (Mean of 2 nd 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 2 rd year/10)	7.43	7.56	9.29
Y= Total no. of successful students	26	53	64
Z =Total no. of students appeared in the examination	28	53	65
API = X* (Y/Z)	6.90	7.56	9.15
Average API = (API_1 + API_2 + API_3)/3	7.87		

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

Academic Performance	CAYm1	CAYm2	CAYm3
X= (Mean of 3 rd 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 3 rd year/10)	7.72	7.58	8.81
Y= Total no. of successful students	42	57	82
Z= Total no. of students appeared in the examination	44	58	85
API = X* (Y/Z)	7.37	7.45	8.50
Average API = (API_1 + API_2 + API_3)/3	7.77		

B9: Placement, Higher Studies, and Entrepreneurship**Table No.B9.1:** Placement, higher studies, and entrepreneurship details.

Item	LYG	LYGm1	LYGm2
FS*=Total no. of final year students	66	132	132
X= No. of students placed	38	63	44
Y= No. of students admitted to higher studies	2	2	0
Z= No. of students taking up entrepreneurship	1	1	3
X + Y + Z =	41	66	47
Placement Index (P) = (((X + Y + Z)/FS) * 100)	62.12	50.00	35.61
Average placement index = (P_1 + P_2 + P_3)/3	49.24		

Note *: If the value of FS in Table No. B9.1 is less than the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2), then the value of FS in Table No. B9.1 should be the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2) of Table No.B3.1.

Part C: Faculty Details in Department and Allied Departments**C1: Faculty Details of Department and Allied Departments****Table No. C1: Faculty Details in the Department for the past 3 years including CAY****CAY (2024-25)**

S.N.	Name of the Faculty	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)	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	Dr. Jyotikumar Acharya	Ph.D	NIT- Silchar, Assam	Environmental Engg	05-04-2021	4	Professor	Professor	NA	Regular	NA	Y	NA
2	Sumit Kanjilal	M.Tech	NIT Durgapur	Structural Engg	20-01-2012	13	Assistant professor	Assistant professor	NA	Regular	NA	Y	NA
3	Dr. Sanghamitra Medda	Ph.D	IIST Shibpur	Water Resources Engg	15-03-2021	4	Assistant professor	Associate professor	06-09-2021	Regular	NA	Y	NA
4	Chinmoy Pal	M.Tech	NITRR Kolkata	Structural Engg	10-08-2015	9	Assistant professor	Assistant professor	NA	Regular	NA	Y	NA
5	Chandan Pandit	ME	Osmania University	Structural Engg	12-01-2016	9	Assistant Professor	Assistant Professor	NA	Regular	NA	Y	NA
6	Tapabrata Roy	M.Tech	NITRR Kolkata	Structural Engg	15-07-2016	8	Assistant Professor	Assistant Professor	NA	Regular	NA	y	NA
7	Sayan Deb	M.Tech	Jadavpur University	Geotechnical Engg	02-03-2022	3	Assistant Professor	Assistant Professor	NA	Regular	NA	Y	NA
8	Chaiti Ray	M.E.	Jadavpur University	Water Resources Engg	09-07-2017	7	Assistant Professor	Assistant Professor	NA	Regular	NA	N	05-05-2025

CAYm1 (2023-24)

S.N.	Name of the Faculty	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)	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	Dr. Jyotikusum Acharya	Ph.D	NIT-Silchar, Assam	Environmental Engg	05-04-2021	3	Professor	Professor	NA	Regular	NA	Y	NA
2	Sumit Kanjilal	M.Tech	NIT Durgapur	Structural Engg	20-01-2012	12	Assistant professor	Assistant professor	NA	Regular	NA	Y	NA
3	Dr. Sanghamitra Medda	Ph.D	IIST Shibpur	Water Resources Engg	15-03-2021	3	Assistant professor	Associate professor	06-09-2021	Regular	NA	Y	NA
4	Chinmoy Pal	M.Tech	NITTTR Kolkata	Structural Engg	10-08-2015	8	Assistant professor	Assistant professor	NA	Regular	NA	Y	NA
5	Chandan Pandit	ME	Osmania University	Structural Engg	12-01-2016	8	Assistant Professor	Assistant Professor	NA	Regular	NA	Y	NA
6	Tapabrata Roy	M.Tech	NITTTR Kolkata	Structural Engg	15-07-2016	7	Assistant Professor	Assistant Professor	NA	Regular	NA	y	NA
7	Sayan Deb	M.Tech	Jadavpur University	Geotechnical Engg	02-03-2022	2	Assistant Professor	Assistant Professor	NA	Regular	NA	Y	NA
8	Chaiti Ray	M.E.	Jadavpur University	Water Resources Engg	09-07-2017	6	Assistant Professor	Assistant Professor	NA	Regular	NA	Y	NA
9	Dr. Tushar Kanti Dey	Ph.D	IIT Roorkee	Structural Engineering	05-08-2019	4	Associate Professor	Associate professor	NA	Regular	NA	N	20-05-2024

CAYm2 (2022-23)

S.N.	Name of the Faculty	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)	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	Dr. Jyotikusum Acharya	Ph.D	NIT- Silchar, Assam	Environmental Engg	05-04-2021	2	Professor	Professor	NA	Regular	NA	Y	NA
2	Sumit Kanjilal	M.Tech	NIT Durgapur	Structural Engg	20-01-2012	11	Assistant professor	Assistant professor	NA	Regular	NA	Y	NA
3	Dr. Sanghamitra Medda	Ph.D	IIST Shibpur	Water Resources Engg	15-03-2021	2	Assistant professor	Associate professor	06-09-2021	Regular	NA	Y	NA
4	Chinmoy Pal	M.Tech	NITTTR Kolkata	Structural Engg	10-08-2015	7	Assistant professor	Assistant professor	NA	Regular	NA	Y	NA
5	Chandan Pandit	ME	Osmania University	Structural Engg	12-01-2016	7	Assistant Professor	Assistant Professor	NA	Regular	NA	Y	NA
6	Tapabrata Roy	M.Tech	NITTTR Kolkata	Structural Engg	15-07-2016	6	Assistant Professor	Assistant Professor	NA	Regular	NA	y	NA
7	Sayan Deb	M.Tech	Jadavpur University	Geotechnical Engg	02-03-2022	1	Assistant Professor	Assistant Professor	NA	Regular	NA	Y	NA
8	Chaiti Ray	M.E.	Jadavpur University	Water Resources Engg	09-07-2017	5	Assistant Professor	Assistant Professor	NA	Regular	NA	Y	NA
9	Dr. Tushar Kanti Dey	Ph.D	IIT Roorkee	Structural Engineering	05-08-2019	3	Associate Professor	Associate professor	NA	Regular	NA	Y	NA
10	Dr. Sushovan Sarkar	Ph.D	IIST Shibpur	Environmental Engineering	01-12-2021	1	Professor and HOD	Professor and HOD	NA	Regular	NA	Y	09-11-2023
11	Pritiparna Ghosal	M.Tech	Techno India University	Structural Engineering	10-03-2022	1	Assistant Professor	Assistant Professor	NA	Regular	NA	N	02-05-2023

C2: Student-Faculty Ratio (SFR)

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

➤ UG₁=1st UG program

➤ UG_n=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 (PG_m)

➤ PG₁=1st PG program.

➤ PG_m=mth PG program

- **A**= No. of Students in PG 1st year
- **B**= No. of Students in PG 2nd year
- ❖ Student Faculty Ratio (**SFR**) = S/F
 - **S**= No. of students of all programs in the Department including all students of allied departments/clusters.
 - **No. of students (ST)**=Sanctioned Intake (SA)+ Actual admitted students via lateral entry including leftover seats (L) if any (limited to 10 % of SA)
 - Students who admitted under supernumerary quotas (SNQ, EWS, etc) will not be considered in calculating SFR value. Those students are **exempted**.
 - **F**=Total no. of regular or contractual faculty members (Full Time) in the Department, including allied departments/clusters (excluding first year faculty (The faculty members who have a 100% teaching load in the first-year courses)).

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

Year	CAY	CAYm1	CAYm2
UG ₁ . B // 2 nd year students of UG ₁ program	33	33	66
UG ₁ . C // 3 rd year students of UG ₁ program	33	66	66
UG ₁ . D // 4 th year students of UG ₁ program	66	66	132
UG ₁ // Total no.of students(2 nd , 3 rd , 4 th) in UG ₁ program	132	165	264
...			
UG _n . B // 2 nd year students of UG _n program			
UG _n . C // 3 rd year students of UG _n program			
UG _n . D // 4 th year students of UG _n program			
UG _n // Total no.of students(2 nd , 3 rd , 4 th) in UG _n program	UG _n .B+UG _n .C+UG _n .D	UG _n .B+UG _n .C+UG _n .D	UG _n .B+UG _n .C+UG _n .D
PG ₁ . A // 1 st year students of PG ₁ program			
PG ₁ . B // 2 nd year students of PG ₁ program			
PG ₁ // Total no.of students(1 st , 2 nd) in PG ₁ program	PG ₁ .A+ PG ₁ .B	PG ₁ .A+ PG ₁ .B	PG ₁ .A+ PG ₁ .B
.....			
PG _m . A // 1 st year students of PG _m program			
PG _m . B // 2 nd year students of PG _m program			
PG _m // Total no.of students(1 st , 2 nd) in PG _m program	PG _m .A+ PG _m .B	PG _m .A+ PG _m .B	PG _m .A+ PG _m .B
DS=Total no. of students in all UG and PG programs in the Department	132	165	264
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)	132	165	264
DF=Total no. of faculty members in the Department	8	9	11
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)	8	9	11
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)	16.5	18.33	24
Average SFR for 3 years	Average SFR= 19.61		

C3: Faculty Qualification

- ❖ Faculty qualification index (FQI) = $2.5 * [(10X + 4Y)/RF]$ where
 - X=No. of faculty members with Ph.D. degree or equivalent as per AICTE/UGC norms.
 - Y=No. of faculty members with M. Tech. or ME degree or equivalent as per AICTE/ UGC norms.
 - RF=No. of required faculty in the Department including allied Departments to adhere to the 20:1

Student-Faculty ratio, with calculations based on both student numbers and faculty requirements as per section C2 of this documents: (RF=S/20).

Table No.C3.1: Faculty qualification.

Year	X	Y	RF	$FQI = 2.5 * [(10X + 4Y)/RF]$
CAY	2	6	6.6	16.67
CAYm1	3	6	8.25	16.36
CAYm2	4	7	13.2	12.88

C4: Faculty Cadre Proportion

- ❖ Faculty Cadre Proportion is 1(RF1): 2(RF2): 6(RF3)
 - RF1= No. of Professors required = $1/9 \times \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per C2 of this documents.}$
 - RF2= No. of Associate Professors required = $2/9 \times \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents.}$
 - RF3= No. of Assistant Professors required = $6/9 \times \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents.}$
- ❖ Faculty cadre and qualification and experience should be as per AICTE/UGC norms.

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

Year	Professors		Associate Professors		Assistant Professors	
	Required Faculty(RF1)	Available Faculty(AF1)	Required Faculty(RF2)	Available Faculty(AF2)	Required Faculty(RF3)	Available Faculty(AF3)
CAY	0.73	1	1.46	1	4.38	6
CAYm1	0.92	1	1.84	2	5.52	6
CAYm2	1.47	2	2.94	2	8.82	7
Average Numbers	1.04	1.33	2.08	1.67	6.24	6.33

C5: Visiting/Adjunct Faculty/Professor of Practice**Table No. C5.1:** List of visiting/adjunct faculty/professor of practice and their teaching and practical loads.

S.N.	Name of the Person	Designation & Organization	Name of the Course	No. of hours handled
CAYm1				
1	Dr. Arindam Haldar	Technical Manager, M/s. WIST Water Solutions Pvt. Ltd.	Environmental Engineering Laboratory for 5 th semester students	14 weeks @ 2 hours per week = 28 hours in 7 th sem
			Environmental Engineering –I for 4 th semester students	13 weeks @ 2 hours per week = 26 hours in 8 th sem
Total no. of hours:				54 hours
CAYm2				
1	Prof. Somnath Mukherjee	Retired Professor, Jadavpur University	Physico chemical processes for water and wastewater treatment for 7 th semester students	13 weeks @ 2 hours per week = 26 hours in 7 th sem
			Environmental Laws & Policy for 8 th semester students	13 weeks @ 2 hours per week = 26 hours in 8 th sem
Total no. of hours:				52 hours
CAYm3				
1	Mr. Biswajit Balomajumder	Ex-Industrial Design Consultant, M/s. Bechtel	Design of RCC Structures for 5 th semester students	14 weeks @ 2 hours per week = 28 hours in 5 th sem
			Design of Steel Structures for 6 th semester students	14 weeks @ 2 hours per week = 28 hours in 6 th sem

Total no. of hours:	56 hours
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C6: Academic Research

Table No. C6.1: Faculty publication details.

S.N.	Item	CAYm1	CAYm2	CAYm3
1	No. of peer reviewed journal papers published	1	1	2
2	No. of peer reviewed conference papers published	1	2	0
3	No. of books/book chapters published	1	0	1

C7: Sponsored Research Project

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

S.N.	PI name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project title*	Name of the Funding agency	Duration of the project	Amount (Lacs)
CAYm1							
1							
Amount received (Rs.)							
CAYm2							
1							
Amount received (Rs.)							
CAYm3							
1							
Amount received (Rs.)							
Total Amount (Lacs) Received for the Past 3 Years							

C8: Consultancy Work

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

S.N.	PI name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project title*	Name of the Funding agency	Duration of the project	Amount (Lacs)
CAYm1							
1							

Amount received (Rs.)							
CAYm2							
1							
Amount received (Rs.)							
CAYm3							
1							
Amount received (Rs.)							
Total amount (Lacs) received for the past 3 years							

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

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

S.N.	Faculty name	Project title/ Support for Activity	Duration	Amount (Lacs)	Amount Utilized (Lacs)	Outcomes of the project
CAYm1						
1						
Amount received (Rs.)						
CAYm2						
1						
Amount received (Rs.)						
CAYm3						
1						
Amount received (Rs.)						
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.

S. N.	Name of the Laboratory	No. of students per setup (Batch Size)	Name of the major equipment	Weekly utilization status (all the courses for which the lab is utilized)	Technical Manpower support		
					Name of the technical staff	Designation	Qualification
1.	Fluid Mechanics laboratory	30	Closed circuit Pitot tube apparatus Reciprocating pump test rig (variable speed)	10	Ms. Kamalika Pandit	Technical Assistant	B.Tech (CE)

			Hydraulic ram test rig with S.S tank Venturimeter and Orifice meter with S.S tank Setup for measurement of friction in pipe line with S.S tank Reynold's apparatus with S.S tank Metacentric height apparatus with S.S tank Centrifugal blower test rig with variable speed DC motor Pelton wheel turbine test rig (1 KW) Francis turbine test rig (1 KW) Centrifugal pump test rig Notches Weir				
2.	Soil Mechanics laboratory	30	CBR testing machine Triaxial shear testing machine Unconfined compressive testing machine Direct shear testing machine Consolidometer Hydrometer Casagrande apparatus Atterberg limit testing apparatus Sieve shaking machine Constant head and variable head permeameter Digital balance Thermostatically controlled and digital Hot air oven Standard penetration test apparatus Vane shear testing machine	25	Ms. Kamalika Pandit	Technical Assistant	B.Tech (CE)
3.	Solid Mechanics laboratory	30	UTM (Universal Testing Machine) Izod and Charpy Impact Testing	10	Mr. Rhhitam Bhattacharjee	Technical Assistant	Diploma (CE)

			Machine				
			Torsion testing machine				
			Rockwell Hardness testing machine				
			Spring testing machine				
			Fatigue testing machine				
4.	Concrete Technology laboratory	30	CTM Machine (Compression testing machine)	25	Mr. Rhhitam Bhattacharjee	Technical Assistant	Diploma (CE)
			Sieve (fine aggregate & coarse aggregate) as per IS code				
			Concrete slump cone apparatus				
			Vee- bee consistometer				
			Flexural strength testing machine				
			Concrete mixing machine				
			Compacting factor test apparatus				
			Concrete vibrating table				
			Hot air oven				
			Vicat apparatus				
			Rebound hammer for NDT				
			Le chatelier apparatus				
			Pycnometer				
5.	Environmental Engineering laboratory	30	Digital DO Meter (Dissolved oxygen)	20	Ms. Kamalika Pandit	Technical Assistant	B.Tech (CE)
			Digital balance of high precision				
			Digital Conductivity meter				
			Digital pH meter				
			Digital turbidity meter				
			Spectrophotometer Digital				
			Jar testing apparatus Digital				
			Incubator				
			Hot air oven				
			Muffle furnace (oven)				
			Autoclave machine				

			B O D Incubator				
6.	Surveying laboratory	30	Metric chain - 30m	10	Mr. Rhhitam Bhattacharjee	Technical Assistant	Diploma (CE)
			Optical square				
			Cross staff				
			prismatic compass				
			Plane table board with stand and other accessories				
			Dumpy level machine				
			Auto level machine				
			Leveling staff				
			Ranging rod				
			PVC and steel tape				
			Transit theodolite				
			TOTAL STATION				
			Sprit level				
7.	Transportation Engineering laboratory	30	Los Angeles Abrasion testing machine	10	Mr. Rhhitam Bhattacharjee	Technical Assistant	Diploma (CE)
			Penetrometer				
			Pensky martens				
			Marshall stability testing machine				
			Ductility testing machine				
			Aggregate Impact testing machine				
			Cleveland apparatus				
			Ring and ball apparatus				
			Flakiness and elongation index gauge				
			Benkelmen beam apparatus				
8.	Water Resources Engineering laboratory	30	Digital Planimeter	10	Ms. Kamalika Pandit	Technical Assistant	B.Tech (CE)
			Symon's raingauge				
			Automatic raingauge - Tipping bucket type				
			Automatic raingauge - Weighing bucket type				
			Automatic raingauge - Float TYPE				
			Double ring infiltrometer (Medium)				
			Evaporimeter				
			Sunshine recorder				

9.	CAD laboratory	30	15 nos. CPU with latest hardware configuration and monitors, keyboards, mouse, UPS and internet facility	40	Mr. Rhhitam Bhattacharjee	Technical Assistant	Diploma (CE)
			AutoCAD, MS office and relevant design softwares				
10.	Geology laboratory	30	Microscope	4	Ms. Kamalika Pandit	Technical Assistant	B.Tech (CE)
			Rocks and minerals specimens				
			Geometric 3D models of crystals of different shapes				
11.	Graphics lab	30	Drawing table	2	Mr. Rhhitam Bhattacharjee	Technical Assistant	Diploma (CE)
			Drawing board				

D2: `Safety Measures in Laboratories

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

S.N.	Name of the Laboratory	Safety measures
1.	Fluid Mechanics laboratory	- Do's and Don'ts boards are installed at appropriate locations. - All the equipment's of the laboratories are grounded. - Over-voltage and short-circuit protection are provided for all electrical equipment using MCBs. - Lab is provided with good lighting, ventilation, 1 or 3 phase power supplies (24 hours a day), UPS backup. - Personal Protective Equipment are provided to the students. - At all appropriate locations, fire extinguishers are installed. - Maintenance is performed as and when necessary.
2.	Soil Mechanics laboratory	- Do's and Don'ts boards are installed at appropriate locations. - All the equipment's of the laboratories are grounded. - Over-voltage and short-circuit protection are provided for all electrical equipment using MCBs. - Lab is provided with good lighting, ventilation, 1 or 3 phase power supplies (24 hours a day), UPS backup. - Personal Protective Equipment are provided to the students. - At all appropriate locations, fire extinguishers are installed. - Maintenance is performed as and when necessary. - Spill trays for preventing soil spillage during Atterberg, Proctor, and CBR tests. - Periodic inspection of loading frames and jacks to avoid overloading hazards. - First aid kit and clear operating instructions displayed for each machine. - Careful handling of sieves, shakers, and soil testing equipment under staff

		supervision. 12. Immediate shutdown of equipment in abnormal situations; prompt reporting of unsafe conditions.
3.	Solid Mechanics laboratory	1. Do's and Don'ts boards are installed at appropriate locations. 2. All the equipment's of the laboratories are grounded. 3. Over-voltage and short-circuit protection are provided for all electrical equipment using MCBs. 4. Lab is provided with good lighting, ventilation, 1 or 3 phase power supplies (24 hours a day), UPS backup. 5. Personal Protective Equipment are provided to the students. 6. At all appropriate locations, fire extinguishers are installed. 7. Maintenance is performed as and when necessary.
4.	Environmental Engineering laboratory	1. Do's and Don'ts boards are installed at appropriate locations. 2. All the chemicals, including acids, are kept in locked condition and students are not allowed to use these chemicals without the supervision of technical assistants and/or faculty-in-charge 3. All the equipment of the laboratories are grounded. Over-voltage and short-circuit protection are provided for all electrical equipment using MCBs. 4. Lab is provided with good lighting, ventilation, 1 or 3 phase power supplies (24 hours a day), UPS backup. 5. Personal Protective Equipment are provided to the students. 6. At all appropriate locations, fire extinguishers are installed. 7. Maintenance is performed as and when necessary. 8. Chemical safety measures with labels and color-coded storage racks. 9. Availability of safety goggles, gloves, and lab coats during handling of chemicals/reagents. 10. Exhaust fans for experiments involving gases or fumes. 11. Spill kit and neutralizing agents for accidental spillage of acids/alkalis. 12. Separate disposal bins for chemical waste as per environmental norms. 13. Safe procedures for waste disposal and spill management; presence of eye-wash stations.

5.	Surveying laboratory	1. Do's and Don'ts boards are installed at appropriate locations. 2. Personal Protective Equipment are provided to the students. 3. At all appropriate locations, fire extinguishers are installed. 4. Maintenance is performed as and when necessary. 5. Safety guidelines for handling Total Station, Auto Level and Theodolite instruments. 6. Instructions for carrying and transporting instruments in protective boxes. 7. Portable kits for protection from sunshine and rainfall are provided during outdoor survey practical. 8. Students trained in safe handling of tripods and levelling instruments to prevent injuries. 9. First aid box available during field visits. 10. Safety awareness for manual handling, lifting, and positioning of equipment.
6.	Transportation Engineering laboratory	1. Do's and Don'ts boards are installed at appropriate locations. 2. All the equipment's of the laboratories are grounded. 3. Over-voltage and short-circuit protection are provided for all electrical equipment using MCBs. 4. Lab is provided with good lighting, ventilation, 1 or 3 phase power supplies (24 hours a day), UPS backup. 5. Personal Protective Equipment are provided to the students. 6. At all appropriate locations, fire extinguishers are installed. 7. Maintenance is performed as and when necessary. 8. Proper guards and covers provided for Los Angeles Abrasion Machine, Impact Testing Machine, and other rotating equipment. 9. Hearing protection (cotton balls) available for noisy equipment. 10. Safety gloves for bitumen handling (softening point, ductility, and penetration tests). 11. Fire extinguisher specifically for bituminous/flammable materials. 12. Non-slip flooring and exhaust system near heating apparatus. 13. Organized work zones with supervision during hazardous experiments.
7.	Water Resources Engineering laboratory	1. Do's and Don'ts boards are installed at appropriate locations. 2. Personal Protective Equipment are provided to the students. 3. At all appropriate locations, fire extinguishers are installed. 4. Maintenance is performed as and when necessary.

8.	CAD laboratory	1. Do's and Don'ts boards are installed at appropriate locations. 2. All the equipment's of the laboratories are grounded. 3. Over-voltage and short-circuit protection are provided for all electrical equipment using MCBs. 4. Lab is provided with good lighting, ventilation, 1 or 3 phase power supplies (24 hours a day), UPS backup. 5. Personal Protective Equipment are provided to the students. 6. At all appropriate locations, fire extinguishers are installed. 7. Maintenance is performed as and when necessary. 8. Surge protectors and UPS backup to prevent data loss and electrical hazards. 9. Fire extinguisher for electrical fires. 10. Restricted entry with footwear control to maintain clean and dust-free equipment. 11. Clear cyber-security and safe usage guidelines displayed. 12. Directions of lab staff strictly followed; no unauthorized use of equipment. 13. Restricted plugging of external devices. 14. Antivirus software is installed and updated periodically in order to protect the systems from any virus induced damage.
9.	Geology laboratory	1. Do's and Don'ts boards are installed at appropriate locations. 2. Personal Protective Equipment are provided to the students. 3. At all appropriate locations, fire extinguishers are installed. 4. Maintenance is performed as and when necessary. 5. Safety cabinets for storing rock and mineral samples. 6. Safety gloves during rock cutting and thin-section preparation. 7. Dust masks provided for handling powder samples. 8. Heavy rock specimens stored on low-height racks to avoid accidents. 9. Safe handling and storage of rock samples, chemicals, and cutting tools. 10. Careful use of microscopes and exposure to specimens under staff guidance.
10.	Concrete Technology Laboratory	1. Do's and Don'ts boards are installed at appropriate locations. 2. Proper ventilation and exhaust system to minimize cement dust exposure. 3. Provision of dust masks, hand gloves for students during mixing and testing. 4. Emergency wash basin for hand and face cleaning after handling cement. 5. Fire extinguisher available near curing tank and electrical panels. 6. Non-slippery floor and proper drainage to avoid water spillage hazards. 7. Mandatory use of covered footwear and appropriate attire. 8. Prohibition of operating machinery without supervision; immediate reporting of any injuries. 9. Clear instructions on equipment use, with regular maintenance of testing machines.

D3: Project Laboratory/Research Laboratory**Table No. D3.1:** List of project laboratory/research laboratory /Centre of Excellence.

S.N.	Name of the Laboratory
1.	CE – Project Laboratory (a dedicated laboratory for students' project work)

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 $((NS1*0.8) + (NS2*0.2)) / (\text{No. of required faculty (RF4)})$; Percentage= $((NS1*0.8) + (NS2*0.2)) / RF4$
CAY	630	31.5	28	6	74.92
CAYm1	480	24	25	7	89.16
CAYm2	480	24	25	10	91.66

E2: Budget Allocation, Utilization, and Public Accounting at Institute Level
Table No. E2.1: Budget and actual expenditure incurred at Institute level.

ITEM	BUDGETED IN 2024-25	ACTUAL EXPENSES IN 2024-25	BUDGETED IN 2023-24	ACTUAL EXPENSES IN 2023-24	BUDGETED IN 2022-23	ACTUAL EXPENSES IN 2022-23	BUDGETED IN 2021-22	ACTUAL EXPENSES IN 2021-22
Infrastructure Built up	12,00,00,000	11,32,19,164	2,00,00,000	1,92,38,190	38,35,000	36,42,597	3,00,00,000	33,34,615
Library	10,00,000	6,35,116	9,00,000	6,21,632	12,09,000	10,68,381	5,00,000	6,34,920
Laboratory Equipment	24,00,000	19,34,694	18,50,000	16,33,526	41,00,000	39,62,100	5,00,000	9,60,914
Teaching and non-teaching staff salary	11,50,00,000	11,23,53,614	11,50,00,000	11,23,21,916	11,00,00,000	10,62,12,685	9,00,00,000	8,56,25,867
Outreach Programs	5,00,000	3,61,588	5,00,000	20,182	6,00,000	5,75,950	-	-
R&D	97,122	97,122	1,45,000	1,13,499	9,65,000	8,57,791	3,15,000	1,78,094
Training, Placement and Industry Linkage	50,00,000	50,52,162	80,00,000	68,54,842	87,00,000	78,63,013	1,10,00,000	97,39,566
SDGs	20,00,000	16,01,050	10,00,000	9,22,162	-	-	-	-
Entrepreneurship	-	-	-	-	-	-	-	-
Others, specify								
Purchase of Other Fixed Assets	1,61,00,000	1,44,15,629	2,78,50,000	2,63,47,803	60,06,000	55,37,973	50,00,000	20,71,259
Donation	2,75,00,000	2,61,20,802	1,00,000	67,800	30,000	21,800	30,000	50,16,800
Other Recurring Expense	10,43,52,878	8,88,47,876	11,02,25,000	10,16,48,176	10,03,23,000	9,03,93,472	6,15,85,000	4,46,15,707
Total	39,39,50,000	36,46,38,816	28,55,70,000	26,97,89,729	23,57,68,000	22,01,35,761	19,89,30,000	15,21,77,742

E3: Budget Allocation, Utilization, and Public Accounting at Program Specific Level
Table No. E3.1: Budget and actual expenditure incurred at program specific level

ITEM	CFY		CFYm1		CFYm2		CFYm3	
	BUDGETED IN 2024-25	ACTUAL EXPENSES IN 2024-25	BUDGETED IN 2023-24	ACTUAL EXPENSES IN 2023-24	BUDGETED IN 2022-23	ACTUAL EXPENSES IN 2022-23	BUDGETED IN 2021-22	ACTUAL EXPENSES IN 2021-22
Laboratory Equipment	1,00,000	-	1,00,000	-	1,00,000	-	3,00,000	2,50,540
Software	50,000	-	50,000	-	50,000	-	50,000	-
SDGs	15,000	-	-	-	-	-	-	-
Support for faculty development	10,000	-	10,000	8,035	10,000	1,100	10,000	-
R & D	10,000	2,560	10,000	8,320	10,000	-	10,000	-
Industrial Training, Industry expert, Internship	1,30,000	1,08,837	60,000	40,755	60,000	52,868	30,000	26,267
Miscellaneous Expenses	1,00,000	49,500	1,00,000	61,264	4,00,000	3,49,528	50,000	38,750
Total	4,15,000	1,60,897	3,30,000	1,18,374	6,30,000	4,03,496	4,50,000	3,15,557