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: 11367	**Date of Submission**: 12-12-2025

PART A- Profile of the Institute

A1.Name of the Institute: A.P. Shah Institute of Technology	
Year of Establishment : 2014	Location of the Institute: Thane
A2. Institute Address:Survey No 12,13 Opposite Hypercity Mall, Kasarvadavali, Ghodbunder Road, Thane West 400615	
City:Thane	State:Maharashtra
Pin Code:400615	Website:www.apsit.edu.in
Email:principal@apsit.org.in	Phone No(with STD Code):022-25973737
A3. Name and Address of the Affiliating University (if any):	
Name of the University : University of Mumbai	City: Mumbai-City
State : Maharashtra	Pin Code: 400098
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: **6**
- No. of PG programs: **0**

Table No. A6.1: List of all programs offered by the Institute.

Sr.No.	Discipline	Level of program	Name of the program	Year of Start	Year of Closed	Name of The Department
1	Engineering & Technology	UG	Civil Engineering	2014	--	Civil Engineering
2	Engineering & Technology	UG	Computer Engineering	2014	--	Computer Engineering
3	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	2021	--	Computer Science and Engineering (Artificial Intelligence and Machine Learning)
4	Engineering & Technology	UG	Computer Science and Engineering (Data Science)	2021	--	Computer Science and Engineering (Data Science)
5	Engineering & Technology	UG	Information Technology	2014	--	Information Technology
6	Engineering & Technology	UG	Mechanical Engineering	2014	--	Mechanical Engineering

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

Mechanical Engineering	No	Mechanical Engineering	UG
Information Technology	Yes	Information Technology	UG
Computer Engineering	Yes	Computer Engineering	UG

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

No Record

PART-B: Program information

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

Table No. B1: Program details.
A. List of the Programs Offered by the Department:

SR.NO.	PROGRAM NAME	PROGRAM APPLIED LEVEL	YEAR OF START / YEAR OF CLOSED	SANCTIONED INTAKE	INCREASE/DECREASE INTAKE (if any)	YEAR OF INCREASE/DECREASE	CURRENT INTAKE	YEAR OF AICTE APPROVAL	AICTE/COMPETENT AUTHORITY ARROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROGRAM DURATION
1	Civil Engineering	UG	2014 / --	60	Yes	2024	30	2024	F.No. Western/1-43664600097/2024/EOA	Granted accreditation for 3 years for the period (specify period)	2020	2026	2	4

Sanctioned Intake for Last Five Years for the Civil Engineering	
Academic Year	**Sanctioned Intake**
2025-26	30
2024-25	30
2023-24	60
2022-23	120
2021-22	120
2020-21	120

List of the Allied Departments/Cluster and Programs:

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

A. Name of the HoD :	Dr. Mugdha Agarwadkar
B. Nature of appointment:	Regular
C. Qualification:	Ph.D

B3. Program Details

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

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

Item	CAY 2025–26	CAYm1 2024–25	CAYm2 2023–24	CAYm3 2022–23	CAYm4 (LYG) 2021–22	CAYm5 (LYGm1) 2020–21	CAYm6 (LYGm2) 2019–20
N = Sanctioned intake of the program (as per AICTE / Competent Authority)	30	30	60	120	120	120	120
N1 = Total number of students admitted in the 1st year minus students migrated out + students migrated in	30	28	17	11	22	31	34
N2 = Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	NA	05	48	34	110	101	98
N3 = Separate division, if any	NA	NA	NA	00	00	00	00
N4 = Total number of students admitted in the 1st year via all supernumerary quotas	02	00	00	00	00	05	06
Total number of students admitted in the program *(N1 + N2 + N3 + N4)*	**32**	**33**	**65**	**45**	**132**	**136**	**138**

B4. Enrolment Ratio in the First Year

Table No. B4.1: Student enrolment ratio in the 1st year.

Item	CAY 2025–26	CAYm1 2024–25	CAYm2 2023–24
N = Sanctioned intake of the program in the 1st year (as per AICTE / Competent Authority)	30	30	60
N1 = Total number of students admitted in the 1st year minus students migrated to other programs/institutions plus students migrated to this program	30	28	17
N4 = Total number of students admitted in the 1st year via all supernumerary quotas	02	00	00
Enrolment Ratio (ER) = (N1 + N4) / N × 100	106.67	93.33	28.33
Average ER = (ER_1 + ER_2 + ER_3) / 3		**76.11**	

Average [(ER1 + ER2 + ER3) / 3] = 76.11

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* = Number of students admitted in the 1st year of that batch and those actually admitted in the 2nd year via lateral entry, plus students admitted through multiple entry (if any) and separate division (if applicable), minus students exited through multiple entry (if any)	132	136	138
B = Number of students who graduated from the program in the stipulated course duration	63	102	109
Success Rate (SR) = (B / A) × 100	47.72	75.00	78.99
Average SR of three batches = (SR_1 + SR_2 + SR_3) / 3		**65.57**	

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 65.57

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**)	5.70	5.47	5.41
Total number of successful students (**Y**)	21	10	07
Total number of students appeared in the examination (**Z**)	28	17	11
API = X × (Y / Z)	4.28	3.21	3.44
Average API = (API_1 + API_2 + API_3) / 3	**3.65**		

Average API=[(AP1+AP2+AP3)/3] : 3.65

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
(Mean of 2nd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2rd year/10)	5.765	4.992	5.249
Y= Total no. of successful students	55	27	84
Z =Total no. of students appeared in the examination	60	49	130
API = X* (Y/Z)	5.28	2.75	3.39
Average API = (API_1 + API_2 + API_3)/3	3.806		

Average API= [(AP1 + AP2 + AP3)/3] : 3.806

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
Mean of CGPA or Mean Percentage of all successful students (X)	5.07	5.45	5.35
Total no. of successful students (Y)	30	70	52
Total no. of students appeared in the examination (Z)	56	85	88
API = X* (Y/Z)	2.72	4.49	3.16
Average API = (AP1 + AP2 + AP3)/3	**4.00**		

Average API= [(AP1 + AP2 + AP3)/3]: 4.00

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	132	132	157
X= No. of students placed	17	44	52
Y= No. of students admitted to higher studies	03	22	15
Z= No. of students taking up entrepreneurship	00	09	02
X + Y + Z =	20	75	69
Placement Index (P) = (((X + Y + Z)/FS) * 100)	15.15	56.81	43.95
Average placement index = (P_1 + P_2 + P_3)/3	38.64		

Average Placement Index = (P_1 + P_2 + P_3)/3 = 38.64

Placement Index Points: 11.592

PART C: Faculty Details in Department and Allied Departments

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

C1. Faculty details of Department and Allied Departments

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

Sr.No	Name of the Faculty	PAN No.	Highest degree	University	Area of Specialization	Date of Joining in this Institution	Experience in years in current institute	Designation at Time Joining in this Institution	Present Designation	The date on which Designated as Professor/ Associate Professor if any	Nature of Association (Regular/ Contract/ Ad hoc)	Currently Associated (Y/N)	In case of NO, Date of Leaving	IS HOD?
1	Dr. Mugdha Agarwadkar	XXXXXXX13H	Ph.D	Indian Institute of Technology Bombay	Hydrology, Natural Resources	06/07/2017	8.5	Assistant Professor	Associate Professor	01/07/2021	Regular	Yes		Yes
2	Dr. Madhuri Mulay	XXXXXXX93Q	Ph.D	Nagpur University	Civil and environmental engineering	17/01/2018	7.10	Assistant Professor	Associate Professor	04/06/2018	Regular	Yes		No
3	Dr. Pooja Rao	XXXXXXX11D	Ph.D	NIT, Surat	Geotechnical Engineering	01/07/2016	9.5	Assistant Professor	Assistant Professor		Regular	Yes		No
4	Dr. Raksha Khandare	XXXXXXX62B	Ph.D	Mumbai University	Structural Engineering	01/07/2015	10.5	Assistant Professor	Assistant Professor		Regular	Yes		No
5	Mr. Pravinkumar Jagtap	XXXXXXX12D	M.E.	Mumbai University	Construction Management	01/07/2015	10.5	Assistant Professor	Assistant Professor		Regular	Yes		No

6	Dr. Pallavi Nehete	XXXXXXX54B	Ph.D	Sandip University	Civil and environmental engineering	01/08/2016	9.4	Assistant Professor	Assistant Professor		Regular	Yes		No
7	Dr. Mrunal Joshi	XXXXXXX38C	Ph.D	Sandip University	Structural Engineering	03/07/2017	8.5	Assistant Professor	Assistant Professor		Regular	Yes		No
8	Mr. Vishal Misal	XXXXXXX19C	M.E.	Mumbai University	Structural Engineering	06/07/2017	8.5	Assistant Professor	Assistant Professor		Regular	Yes		No
9	Mr. Umesh Vazurkar	XXXXXXX87L	M.Tech	Amravati University	Structural Engineering	03/07/2017	8.5	Assistant Professor	Assistant Professor		Regular	Yes		No
10	Ms. Vrushali Suryawanshi	XXXXXXX81B	M.E.	Pune University	Structural Engineering	03/07/2017	8.5	Assistant Professor	Assistant Professor		Regular	Yes		No
11	Mr. Upendra Mate	XXXXXXX07A	M.E.	Nagpur University	Water resources and irrigation engineering	01/03/2018	7.9	Assistant Professor	Assistant Professor		Regular	Yes		No
12	Ms. Komal Gujarati	XXXXXXX65J	M.E.	Gujarat Technological University	Water resources management	01/07/2016	9.5	Assistant Professor	Assistant Professor		Regular	Yes		No
13	Mr. Kushal Thool	XXXXXXX62G	M.Tech	Indian Institute of Technology Roorkee	Structural Engineering	01/07/2019	5.11	Assistant Professor	Assistant Professor		Contractual Fulltime	No	27/06/2025	No
14	Ms. Sana Mulla	XXXXXXX69J	M.Tech	Mumbai University	Structural Engineering	05/07/2019	5.11	Assistant Professor	Assistant Professor		Contractual Fulltime	No	27/06/2025	No
15	Ms. Vijayalaxmi Nalawade	XXXXXXX46J	M.Tech	Mumbai University	Construction Management	02/03/2022	3.3	Assistant Professor	Assistant Professor		Contractual Fulltime	No	27/06/2025	No
16	Ms. Priyanka Jadhav	XXXXXXX50B	M.E.	Kolhapur University	Construction Management	03/07/2017	7	Assistant Professor	Assistant Professor		Regular	No	30/07/2024	No
17	Ms. Nithya K	XXXXXXX71B	M.Tech	Calicut University	Geotechnical Engineering	03/07/2017	6.5	Assistant Professor	Assistant Professor		Regular	No	22/12/2023	No
18	Ms. Snehlata	XXXXXXX79M	M.Tech	Indian Institute of Technology Delhi	Transportation engineering	19/06/2019	5.3	Assistant Professor	Assistant Professor		Contractual Fulltime	No	01/10/2024	No
19	Mr. Nitin Mane	XXXXXXX75A	M.Tech	MIT ADT University	Structural Engineering	02/03/2022	2.3	Assistant Professor	Assistant Professor		Contractual Fulltime	No	27/06/2024	No
20	Ms. Megha Thomas	XXXXXXX31H	M.E.	SVNIT	Structural Engineering	02/03/2022	1.9	Assistant Professor	Assistant Professor		Contractual Fulltime	No	01/12/2023	No
21	Ms. Shruti Godbole	XXXXXXX52F	M.E.	Mumbai University	Construction engineering and management	10/03/2022	1.7	Assistant Professor	Assistant Professor		Contractual Fulltime	No	23/10/2023	No
22	Mr. Aditya Shastri	XXXXXXX72M	M.E.	Mumbai University	Construction Management	01/02/2021	2.5	Assistant Professor	Assistant Professor		Contractual Fulltime	No	12/07/2023	No

C2. Student-Faculty Ratio (SFR)

No. of UG(Engineering) programs in Department including allied departments/ clusters (UGn):
UG1=1st UG program
UGn=nth UG program
B= No. of Students in UG 2nd year (ST)
C= No. of Students in UG 3rd year (ST)
D= No. of Students in UG 4th year (ST)
No. of PG (Engineering) programs in Department including allied departments/ clusters (PGm):
PG1=1st PG program.
PGm=mth PG program
A= No. of Students in PG 1st year
B= No. of Students in PG 2nd year
Student Faculty Ratio **(SFR)** = S/F
S= No. of students of all programs in the Department including all students of allied departments/clusters.
No. of students (ST)=Sanctioned Intake (SA)+ Actual admitted students via lateral entry including leftover seats (L) if any (limited to 10 % of SA)
Students who admitted under supernumerary quotas (SNQ, EWS, etc) will not be considered in calculating SFR value. Those students are exempted.
F=Total no. of regular or contractual faculty members (Full Time) in the Department, including allied departments/clusters (excluding first year faculty (The faculty members who have a 100% teaching load in the first-year courses)).

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

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

Description	**CAY(2025-26)**	**CAYm1 (2024-25)**	**CAYm2 (2023-24)**
UG1.B	33	65	120
UG1.C	65	120	132
UG1.D	120	132	132
UG1: Civil Engineering	**218**	**317**	**384**
DS=Total no. of students in all UG and PG programs in the Department	218	317	384
AS=Total no. of students of all UG and PG programs in allied departments	0	0	0
S=Total no. of students in the Department (DS) and allied departments (AS)	**S1=** 218	**S2=** 317	**S3=** 384
DF=Total no. of faculty members in the Department	12	15	18
AF= Total no. of faculty members in the allied Departments	0	0	0
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	**F1=** 12	**F2=** 15	**F3=** 18
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= 18.17**	**SFR2= 21.13**	**SFR3= 21.33**
Average SFR for 3 years	**SFR= 20.21**		

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 (25-26)	6	6	11	19.3
CAYm1(24-25)	5	9	16	13.6
CAYm2 (23-24)	3	14	19.2	11.2
			Average Assessment	**14.7**

C4. Faculty Cadre Proportion

Faculty Cadre Proportion is 1(RF1): 2(RF2): 6(RF3)

RF1= No. of Professors required = 1/9 * No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per C2 of this documents:.

RF2= No. of Associate Professors required = 2/9 * No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents:.

RF3= No. of Assistant Professors required = 6/9 * No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents:.

Faculty cadre and qualification and experience should be as per AICTE/UGC norms.

Table No.C4.1: Faculty cadre proportion details

Year	Professors		Associate Professors		Assistant Professors	
	Required Faculty (RF1)	**Available Faculty (AF1)**	**Required Faculty (RF2)**	**Available Faculty (AF2)**	**Required Faculty (RF3)**	**Available Faculty (AF3)**
CAY	1.21	0	2.4222	2	7.2667	12
CAYm1	1.76	0	3.5222	2	10.5667	15
CAYm2	2.13	0	4.2667	2	12.8000	18
Average Numbers	RF1 = 1.70	AF1 = 0	RF2 = 3.40	AF2 = 2.00	RF3 = 10.21	AF3 = 15.00
Faculty Cadre Proportion =						**11.75**

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 (24-25)				
1	Mr. Rohil Julaniya	Raymond Reality, Head Quality Assurance	Projects & training	51 hrs
CAYm1 (23-24)				
1	Mr. Rohil Julaniya	Raymond Reality, Head Quality Assurance	Projects & training	51 hrs
CAYm1 (22-23)				
1	Mr. Rohil Julaniya	Raymond Reality, Head Quality Assurance	Projects & training	53 hrs

C6. Academic Research

Table No. C6.1: Faculty publication details.

S.N.	Item	CAYm1	CAYm2	CAYm3
1	No. of peer reviewed journal papers published	2	3	-
2	No. of peer-reviewed conference papers published	4	2	-
3	No. of books/book chapters published	3	-	-

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)
NIL							

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

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.

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	Prof. Vrushali Suryawanshi	-	Civil Engg	Estimating, costing and tender processsing	Rajmudra Civil Solutions	Ongoing	1,50,000/-
2	Prof. Vrushali Suryawanshi	-	Civil Engg	Estimating, costing and tender processsing	Rajmudra Civil Solutions	Ongoing	3,00,000/-
						Amount received (Rs.)	4,50,000/-
CAYm2							
1	Dr. Maduri Mulay	-	Civil engg.	Proof checking of strom water drain with respect to MIDC tie-in provided for 6421 PTAP project	Toyo Engineering Ltd.	1 year	2,25,000/-
						Amount received (Rs.)	2,25,000/-
CAYm3							
NIL							
						Total Amount (Lacs) Received for the Past 3 Years	**6,75,000/-**

Total amount (Lacs) received for the past 3 years: **6,75,000/-**

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.

S.N.	Faculty name	Project title/ Support for Activity	Duration	Amount (Lacs)	Amount Utilized (Lacs)	Outcomes of the project
CAYm1						
1	Dr. Madhuri Mulay	Laptop purchase	Ongoing	57,000/-	57,000/-	Research projects, academic improvement, and research publication
2	Prof. Upendra Mate	Laptop purchase	Ongoing	57,000/-	57,000/-	Research projects, academic improvement, and research publication
3	Dr. Pallavi Nehete	Laptop purchase	Ongoing	57,000/-	57,000/-	Research projects, academic improvement, and research publication
4	Dr. Mrunal Joshi	Laptop purchase	Ongoing	57,000/-	57,000/-	Research projects, academic improvement, and research publication
5	Dr. Mugdha Agarwadkar	Laptop purchase	Ongoing	65,000/-	65,000/-	Research projects, academic improvement, and research publication
6.	Prof. Vrushali Suryawanshi	Laptop purchase	Ongoing	65,000/-	65,000/-	Research projects, academic improvement, and research publication
5	Prof. Vishal Misal	Laptop purchase	Ongoing	65,000/-	65,000/-	Research projects, academic improvement, and research publication

6	Prof. Komal Gujarati	Laptop purchase	Ongoing	65,000/-	65,000/-	Research projects, academic improvement, and research publication
7	Umesh Vazurkar	Laptop purchase	Ongoing	65,000/-	65,000/-	Research projects, academic improvement, and research publication
8	Priyanka Jadhav	Laptop purchase	Ongoing	65,000/-	65,000/-	Research projects, academic improvement, and research publication
Amount received (Rs.) :						**6,18,000/-**
CAYm2						
NIL						
CAYm3						
1	Dr. Pooja Rao	Laptop purchase	Ongoing	60,000/-	60,000/-	Research projects, academic improvement, and research publication
2	Prof. Pravin Jagtap	Laptop purchase	Ongoing	60,000/-	60,000/-	Research projects, academic improvement, and research publication
3	Prof. Raksha Khandare	Laptop purchase	Ongoing	60,000/-	60,000/-	Research projects, academic improvement, and research publication
Amount received (Rs.) :						**1,80,000/-**
Total Amount (Lacs) Received for the Past 3 Years:						**7,98,000/-**

Total amount (Lacs) received for the past 3 years : **7,98,000/-**

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

Sr. No.	Name of 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 technic al staff	Designation	Qualifi-cation
1	Engineering Mechanics (508)	25	Simple Jib-Crane	36 hours	Prof. Umesh Vazurkar Ms. Vaidehi Choudhar	Asst. Prof. TA	M. Tech BE
			Parallel force Apparatus				
			Collision of Elastic Bodies				
			Bell Crank Lever				
			Friction Slide Apparatus with Inclined Plane				
			Compound Pendulum				
			Simple Pendulum				
			Polygon of forces apparatus				
2	Surveying Store	25	Lynx Measuring Chain 30 m	18 hours		Asst. Prof.	Ph.D.

			Lynx 100 mm Prismatic Compass			TA	BE
			Lynx 125 mm Prismatic Compass				
			Lynx Surveyor compass with tripod				
			Lynx Auto Level Model with stand				
			Lynx Aluminium stand Lynx ST 20 Standard Vernier theodolite with base		Dr. Pallavi Nehete Ms. Vaidehi Choudhary		
			Lynx Plane table 22 mm thick with stand				
			Lynx Cross staff aluminium 150 mm				
			Placom digital Planimeter KP-90N				
			Optical square				
			Theodolite (Transit)				
			Magnetic Compass Prismatic type with aluminium telescopic stand				

			Dumpy Level				
			Digital Planimeter				
			Mechanical Planimeter				
			Plane table apparatus 1. Brass alidade 2. Compass 3. Spirit level 4. Plumb bob 5. Plumbing fork 6. Plane table cover				
			Tacheometer Auto level Distance Measuring Instrument				
			Lynx Auto Level Model LAL 18M				
			Lynx Aluminium Telescopic Stand				
			Plane table				
			Standard Vernier Theodolite model ST-20 with wooden case and stand				
			Dumpy Level with stand				
			Tilting Level				

			Vernier Theodolite LM101 06 Lynx ST20E with stand				
			Vernier Theodolite LM101 06 Lynx ST20E with stand				
			Vernier Theodolite LM101 06 Lynx ST20E with stand				
			Vernier Theodolite LM101 06 Lynx ST20E with stand				
			Total Station Pentax R 1500 N series				
			Pentax handheld distance meter				
3	Fluid Mechanics (003A)	25	Metacentric height by Ship model	12 hours	Prof. Komal Gujarati	Asst. Prof.	M. E.
			Hydraulic test setup A: Bernoulli's apparatus, Pipe friction, Venturi meter, Orifice, losses in pipe (major & minor losses)				
			Hydraulic test setup B: Impact of jet, Rotameter, Notches (triangular & rectangular), orifice				
			Nozzle meter apparatus				

			Reynold's apparatus				
			Viscosity apparatus (capillary viscometer)				
			Turbulent flow apparatus				
			Flowmeter apparatus				
			Water Hammer setup				
			Redwood Viscometer				
			Flow measurement apparatus				
			Manometer Model				
4	Engineering Geology (120)	25	Mineral Specimens	12 hours	Dr.P.S. Rao Ms. Vaidehi Choudhary	Asst. Prof. TA	M. Tech BE
			Rock Specimens				
			Structural Geology Models				
			Hardness Collection set				
			Lustre and cleavage collection set				
			Fracture and Tenacity Set				
			Specific Gravity /set				
			Streak Collection set				

			Feel properties Test				
			Plastic specimen trays				
			Streak plates				
5	Building Material and Concrete Technology (007)	25	Tile Abrasion Testing machine	12 hours	Dr. Raksha S. Khandare Ms. Vaidehi Choudhary	Asst. Prof. TA	M. Tech BE
			Laboratory Oven				
			Le Chateliers Mould Set				
			Vicats needle Apparatus				
			Cement Autoclave				
			Vicats needle Apparatus				
			Le Chateliers Mould Set				
			Sieve shaker Gyratory (Motorised)				
			200 T Compression Testing machine				
			Compaction Factor Apparatus				
			Vee Bee Consistometer				
			Flexure Testing machine				
			Blaines Air Permeability				

			Blaines Air Permeability				
			Slump Test Apparatus				
			Flow Table Hand Operated				
			Compaction Factor Test				
			Slump Test Apparatus				
			Electronic Weight Balance				
			Gauging Trowel				
			Vibrating machine				
			Brass Sieve (Dia 200 mm)				
			Pycnometer bottle				
			James's manual Test hammer				
			Concrete permeability Apparatus				
			Ultrasonic pulse velocity tester				
			Rapid Chloride penetration / permeability test apparatus (3-cell)				
			Vibrating Table: Size 500 x 500 mm				

			Digital Accelerated curing tank				
			Conical Mandrel				
			COBB Moisture Tester				
6	Transportation Engineering (120)	25	Los Angel's Abrasion Testing Machine	12 hours	Dr. Pallavi Nehete	Asst. Prof.	Ph.D.
			Aggregate Impact Value Testing Machine				
			Thickness Gauge				
			Weighing Balance				
			Length Gauge				
			Penetrometer				
			Thermometer				
			ductility testing machine				
			Ring and Ball Apparatus				
			Marshall Stability Test Machine				
			Water Bath				

7	Environmental Engineering (115)	25	P^H Meter microprocessor-based Table model PH 2215	12 hours	Dr. M. P. Joshi Ms. Choudhary	Asst. Prof. TA	Ph.D. BE
			Turbidity meter Model No. 331 E				
			Flocculator with 6 stirrers with microprocessor based digital speedometer				
			Digital Oxygen meter- Dissolved oxygen meter portable model				
			COD Digester Apparatus Model Eles 101 (f) for 6 samples with COD tubes				
			BOD Incubator chamber size 45x45x45 volume 3 CFT,90 lit.				
			TDS meter table model EQ 680				
			Oven				
			Weigh Balance				
			Sound Level Meter				
			High Volume sampler				

			Magnetic Stirrer				
			Muffle Furnace				
8	Applied Hydraulics (003B)	25	Francis Turbine	12 hours	Prof. Komal Gujarati	Asst. Prof.	M. E.
			Pelton Wheel Turbine test				
			Centrifugal pump test				
			Digital Tachometer				
9	Geotechnical Engineering (121)	25	Specific gravity Bottle	12 hours	Dr.P.S. Rao Ms. Vaidehi Choudhary	Asst. Prof. TA	Ph.D. BE
			Soil hydrometer				
			Wash bottle				
			Thermometer				
			Cone penetrometer				
			Core cutter with Dolly				
			Balance				
			Hydrometer jar				
			Liquid limit device				

			Proctor mould				
			Pycnometer bottle				
			Rubber Bong				
			Shrinkage limit set (including mercury 250g)				
			Triaxial Apparatus				
			Proctor compaction apparatus Mould: 100mm diaX1273 mm Hx 100 C				
			Vane shear apparatus				
			Permeability test apparatus				
			California bearing ratio				
			Oven				
			Direct shear apparatus				
			Proving ring cap-2.5 T, cap-30T				
			Consolidation apparatus- 3 gang				

			Unconfined compressive strength test attachment (cone seating pair for ucs)				
			Hydrometer stirrer (High speed soil stirrer 8000 to 10000rpm)				
			Sieve shaker electrically				
10	Strength of Materials (006)	25	Universal Testing Machine	12 hours	Prof. V. K. Suryawansh	Asst. Prof.	M.Tec
			Impact Testing Machine				
			Hardness Testing Machine				
			Torsion Testing Machine				

D2. Safety Measures in Laboratories

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

Sr. No.	Name of LAB	Safety Measures/ Lab instructions
1	Name of LAB: Engineering Mechanics Room No. 508	1 Do's and Don'ts are displayed in each laboratory. 2 In the first session of a laboratory students are informed about the safe practices to be adopted in a laboratory while performing experiments. 3 First aid box is provided in each laboratory and tutorial room. 4 Fire extinguishers are installed in every laboratory. 5 Condition of the equipment from the point of safety is checked regularly by the technical staff. Damaged equipments are identified and repaired promptly. 6 Periodical calibration of the laboratory equipments are done. 7 Use of cell phones is strictly prohibited. 8 Students are allowed to operate instruments in presence of instructor, 9 Students are instructed to keep a distance from hanging weights
2	Name of LAB: Surveying Store Room No. 007A	1 Do's and Don'ts are displayed in each laboratory. 2 In the first session of a laboratory students are informed about the safe practices to be adopted in a laboratory while performing experiments. 3 First aid box is provided in each laboratory and tutorial room. 4 Fire extinguishers are installed in every laboratory. 5 Condition of the equipment from the point of safety is checked regularly by the technical staff. Damaged equipments are identified and repaired promptly. 6 Periodical calibration of the laboratory equipments are done. 7 Use of cell phones is strictly prohibited. 8 Students performed the survey exercises under the supervision of instructor, 9 Students are instructed to operate and handle the survey equipments with care. 10 Students are advised to use Cap, sunglasses and also advised to carry a water bottle while working outdoors. 11 For survey project proper safety measures are taken.
3	Name of LAB: Fluid Mechanics Room No. 003	1 Do's and Don'ts are displayed in each laboratory. 2 In the first session of a laboratory students are informed about the safe practices to be adopted in a laboratory while performing experiments. 3 First aid box is provided in each laboratory and tutorial room. 4 Fire extinguishers are installed in every laboratory. 5 Condition of the equipment from the point of safety is checked regularly by the technical staff.

		Damaged equipments are identified and repaired promptly. 6 Periodical calibration of the laboratory equipments are done. 7 Use of cell phones is strictly prohibited. 8 Students are allowed to operate instruments in presence of instructor 9 Students are made aware of the electric connections and proper way to operate the switches. 10 Floor is kept clean to avoid the accident due to slippage.
4	Name of LAB: Engineering Geology Room No. 120	1 Do's and Don'ts are displayed in each laboratory. 2 In the first session of a laboratory students are informed about the safe practices to be adopted in a laboratory while performing experiments. 3 First aid box is provided in each laboratory and tutorial room. 4 Fire extinguishers are installed in every laboratory. 5 Condition of the equipment from the point of safety is checked regularly by the technical staff. Damaged equipments are identified and repaired promptly. 6 Periodical calibration of the laboratory equipments are done. 7 Use of cell phones is strictly prohibited. 8 Samples and models are carried using tray from cupboard to display table for safety.
5	Name of LAB: Building Material and Concrete Technology Room No. 007	1 Do's and Don'ts are displayed in each laboratory. 2 In the first session of a laboratory students are informed about the safe practices to be adopted in a laboratory while performing experiments. 3 First aid box is provided in each laboratory and tutorial room. 4 Fire extinguishers are installed in every laboratory. 5 Condition of the equipment from the point of safety is checked regularly by the technical staff. Damaged equipments are identified and repaired promptly. 6 Periodical calibration of the laboratory equipments are done. 7 Use of cell phones is strictly prohibited. 8 Safe distance from machines is maintained during their working. 9 Hand gloves are used for mixing, compacting and placing of concrete. 10 Debris is removed immediately after performing experiment. 11 Students are allowed to operate instruments in presence of instructor.
	Name of LAB: Transportation Engineering Room No. 120	1 Do's and Don'ts are displayed in each laboratory. 2 In the first session of a laboratory students are informed about the safe practices to be adopted in a laboratory while performing experiments. 3 First aid box is provided in each laboratory and tutorial room. 4 Fire extinguishers are installed in every laboratory. 5 Condition of the equipment from the point of safety is checked regularly by the technical staff. Damaged equipments are identified and repaired promptly. 6 Periodical calibration of the laboratory equipments are done.

		7 Use of cell phones is strictly prohibited. 8 Safe distance from machines is maintained their working. 9 Special care is taken while putting and removing samples from oven. 10 Hand gloves are used whenever necessary. 11 Students are allowed to operate instruments in presence of instructor
6	Name of LAB: Environmental Engineering Room No. 115	1 Do's and Don'ts are displayed in each laboratory. 2 In the first session of a laboratory students are informed about the safe practices to be adopted in a laboratory while performing experiments. 3 First aid box is provided in each laboratory and tutorial room. 4 Fire extinguishers are installed in every laboratory. 5 Condition of the equipment from the point of safety is checked regularly by the technical staff. Damaged equipments are identified and repaired promptly. 6 Periodical calibration of the laboratory equipments are done. 7 Use of cell phones is strictly prohibited. 8 All bottles containing chemicals are properly labelled. 9 Hazardous, corrosive, poisonous materials and concentrated acids are kept in lock and key. 10 Instruction given regarding use of chemicals. 11 Hand gloves are used by students to handle chemicals. 12 Used chemicals are safely disposed after the performance.
7	Name of LAB: Applied Hydraulics Room No. 003	1 Do's and Don'ts are displayed in each laboratory. 2 In the first session of a laboratory students are informed about the safe practices to be adopted in a laboratory while performing experiments. 3 First aid box is provided in each laboratory and tutorial room. 4 Fire extinguishers are installed in every laboratory. 5 Condition of the equipment from the point of safety is checked regularly by the technical staff. Damaged equipments are identified and repaired promptly. 6 Periodical calibration of the laboratory equipments are done. 7 Use of cell phones is strictly prohibited. 8 Students are allowed to operate instruments in presence of instructor 1 Students are made aware of the electric connections and proper way to operate the switches. 2 Floor is kept clean to avoid the accident due to slippage.
8	Name of LAB: Geotechnical Engineering Room No. 121	9 Do's and Don'ts are displayed in each laboratory. 10 In the first session of a laboratory students are informed about the safe practices to be adopted in a laboratory while performing experiments. 11 First aid box is provided in each laboratory and tutorial room.

		12 Fire extinguishers are installed in every laboratory. 13 Condition of the equipment from the point of safety is checked regularly by the technical staff. Damaged equipments are identified and repaired promptly. 14 Periodical calibration of the laboratory equipments are done. 15 Use of cell phones is strictly prohibited. 16 Safe distance from machines is maintained during working. 17 Special care is taken while putting and removing samples from oven. 18 Hand gloves are used whenever necessary. 19 Floor is kept clean to avoid the accident due to slippage.

D3. Project Laboratory/Research Laboratory

Table D3.1: Project Laboratory/Research Laboratory

Sr. No.	Name of lab
1	Building Material and Concrete Testing Laboratory
2	Geotechnical Engineering Laboratory
3	Transportation Engineering Laboratory
4	Environmental Engineering Laboratory

PART E: First Year faculty and financial Resources

(Data to be filled in for the first year course faculty and budget allocation and utilization)

E1. First Year Student-Faculty Ratio (FYSFR)

Table No. E1.1: FYSFR details.

Year	Sanctioned intake of all UG programs (S4)	No. of required faculty (RF4= S4/20)	No. of faculty members in Basic Science Courses & Humanities and Social Sciences including Management courses (NS1)	No. of faculty members in Engineering Science Courses (NS2)	Percentage = No. of faculty members ((NS1*0.8) + (NS2*0.2))/(No. of required faculty (RF4)); Percentage = ((NS1*0.8)+ (NS2*0.2))/RF4
2025-26	720	36	20	61	78.33
2024-25	720	36	19	54	72.22
2023-24	720	36	19	40	64.44
Average Percentage					**71.66**

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

Table No. E2.1: Budget and actual expenditure incurred at Institute level for CFY m1 (2024-25)

Total Income in the CFYm1 (2024-25)				Actual expenditure in the CFYm1	Total Students in the institute	Expenditure per student in CFYm1:
Fee	Govt.	Grant(s)	Other Sources (specify)			
35,89,30,208	-	-	18,69,053	35,19,30,956	2,642	1,33,206

Table No. E2.2: Budget and actual expenditure incurred at Institute level for CFY m2 (2023-24)

Total Income in the CFYm2 (2023-24)				Actual expenditure in the CFYm2	Total Students in the institute	Expenditure per student in CFYm2:
Fee	Govt.	Grant(s)	Other Sources (specify)			
31,78,94,250	-	-	7,64,135	31,06,73,411	2,356	1,31,865

Table No. E2.3: Budget and actual expenditure incurred at Institute level for CFY m3 (2022-23)

Total Income in the CFYm3 (2022-23)				Actual expenditure in the CFYm3	Total Students in the institute	Expenditure per student in CFYm3:
Fee	Govt.	Grant(s)	Other Sources (specify)			
30,64,69,863	-	-	7,68,249	26,14,28,596	2,320	1,12,685

Table No. E2.4: Information of other sources of income for CFYm1, CFYm2, CFYm3

Other Sources	2024-25	2023-24	2022-23
Interest income	6,09,696	5,65,177	3,91,619
Other Income	72,300	1,91,770	2,48,200
Sundry Balance Written back	9,86,300	554	13,841
Excess provision of Doubtful Debts written back	-	-	71,739
Profit on Sale of Fixed Assets	89,757	6,634	42,850
Awards & Prizes	51,000		
Sponsorship Received	60,000		
Total	**18,69,053**	**7,64,135**	**7,68,249**

Table No. E2.5: Budget and actual expenditure incurred at Institute level for CFY (2025-26)

Items	Budgeted in CFY (2025-26)	Actual expenses in CFY (till 31-12-2025)
Infrastructure Built-Up	1,50,00,000	84,70,204
Library	5,00,000	2,55,214
Laboratory equipment	1,60,00,000	1,05,52,293
Teaching and non-teaching staff salary	28,00,00,000	16,34,13,904
Outreach Programs	5,00,000	5,205
R&D	6,00,000	3,83,808
Training, Placement and Industry linkage	50,00,000	2,36,124
SDGs	7,00,000	22,815
Entrepreneurship	-	-
Others*, pl. specify	7,00,00,000	4,34,76,745
Total amount	**38,83,00,000**	**22,64,04,484**

Table No. E2.6: Budget and actual expenditure incurred at Institute level for (CFYm1, CFYm2, CFYm3)

Items	Budgeted in CFYm1 (2024-25)	Actual expenses in CFYm1 (2024-25)	Budgeted in CFYm2 (2023-24)	Actual expenses in CFYm2 (2023-24)	Budgeted in CFYm3 (2022-23)	Actual expenses in CFYm3 (2022-23)
Infrastructure Built-Up	2,20,00,000	1,84,42,714	1,25,00,000	1,16,62,483	72,00,000	64,87,626
Library	10,00,000	6,22,504	10,00,000	8,72,741	10,00,000	8,19,009
Laboratory Equipment	1,50,00,000	1,14,44,657	2,20,00,000	2,02,66,497	1,00,00,000	85,06,361
Laboratory Consumables	8,00,000	6,91,478	6,00,000	4,32,310	4,00,000	2,95,987
Teaching & Non Teaching Staff Salary	25,00,00,000	22,72,55,199	20,00,00,000	19,17,45,962	18,00,00,000	17,28,08,526
Maintenance And Spares	50,00,000	44,84,710	90,00,000	83,49,432	90,00,000	89,71,722
R&D	7,00,000	5,94,237	5,00,000	3,68,001	4,00,000	3,29,275
Training & Travel	50,00,000	40,72,998	25,00,000	19,57,052	15,00,000	12,65,418
Miscellaneous Expenses *	15,00,000	7,95,517	7,50,000	4,95,992	7,00,000	5,22,793
Others, Specify	9,38,00,000	8,35,26,942	8,14,00,000	7,45,22,941	7,05,50,000	6,14,21,879
Total	**39,48,00,000**	**35,19,30,956**	**33,02,50,000**	**31,06,73,411**	**28,07,50,000**	**26,14,28,596**

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

Table No. E3.1: Budget and actual expenditure incurred at program level for CFYm1, CFYm2, CFYm3

Total Budget in CFYm1		**Actual expenditure in CFYm1**		**Total No. of students in CFYm1- 317**
Demanded	**Actual Allocated**	**Actual Expenditure**	**% Spent**	**Expenditure per student**
100000.00	100000.00	82353.00	82	259.79
Total Budget in CFYm2		**Actual expenditure in CFYm2**		**Total No. of students in CFYm2- 384**
Demanded	**Actual Allocated**	**Actual Expenditure**	**% Spent**	**Expenditure per student**
200000.00	200000.00	166551.00	83	433.73
Total Budget in CFYm3		**Actual expenditure in CFYm3**		**Total No. of students in CFYm3 - 318**
Demanded	**Actual Allocated**	**Actual Expenditure**	**% Spent**	**Expenditure per student**
200000.00	200000.00	155167.00	77	487.95

Table No. E3.2: Budget and actual expenditure incurred at program level for CFY

Items	Budgeted in CFY 25-26	Actual expenses in CFY (till Dec) 25-26
Laboratory equipment	30000.00	0.00
Software	0.00	0.00
SDG	30000.00	2000.00
Support for faculty development	30000.00	2200.00
R & D	100000.00	51791.00
Industrial Training Industry expert, Internship	30000.00	420.00
Miscellaneous expenses	30000.00	2517.00
Total amount	**250000.00**	**58928.00**

Table No. E3.3: Budget and actual expenditure incurred at program level for CFYm1, CFYm2, CFYm3

Items	Budgeted in CFYm1 24-25	Actual Expenses in CFYm1 24-25	Budgeted in CFYm2 23-24	Actual Expenses in CFYm2 23-24	Budgeted in CFYm3 22-23	Actual Expenses in CFYm4 22-23
Laboratory equipment	0.00	0.00	30000.00	25960.00	116000.00	89383.00
Software	0.00	0.00	0.00	0.00	0.00	0.00
Laboratory Consumables	15000.00	10186.00	10000.00	5954.00	21000.00	18031.00
Maintenance & Repairs	5000.00	1880.00	35000.00	28654.00	13000.00	11481.00
Research & Development	25000.00	21330.00	60000.00	50103.00	15000.00	11446.00
Training & Travels	15000.00	12559.00	45000.00	38069.00	15000.00	7500.00
Miscellaneous expenses *	40000.00	36398.00	20000.00	17811.00	20000.00	17326.00
Total amount	**100000.00**	**82353.00**	**200000.00**	**166551.00**	**200000.00**	**155167.00**