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**: 1
Application No: 11109	**Date of Submission**: 30-10-2025

PART A- Profile of the Institute

A1.Name of the Institute: INSTITUTE OF TECHNOLOGY, NIRMA UNIVERSITY	
Year of Establishment : 1995	Location of the Institute: Ahmedabad
A2. Institute Address:INSTITUTE OF TECHNOLOGY,NIRMA UNIVERSITY,S.G. HIGHWAY, VILL. CHHARODI	
City:Ahmedabad	State:Gujarat
Pin Code:382481	Website:www.technology.nirmauni.ac.in
Email:NIT@NIRMAUNI.AC.IN	Phone No(with STD Code):079-71652000
A3. Name and Address of the Affiliating University (if any):	
Name of the University :	City: Ahmedabad
State : Gujarat	Pin Code: 382481
A4. Type of the Institution: University	
A5. Ownership Status: Self financing	

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

- No. of UG programs: **8**
- No. of PG programs: **12**

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	Artificial Intelligence and Machine Learning	2024	--	Computer Science and Engineering
2	Engineering & Technology	UG	Chemical Engineering	1995	--	Chemical Engineering
3	Engineering & Technology	UG	Civil Engineering	1996	--	Civil Engineering
4	Engineering & Technology	PG	Computer Aided Structural Analysis & Design	2002	--	Civil Engineering
5	Engineering & Technology	PG	Computer Science and Engineering	2004	--	Computer Science and Engineering
6	Engineering & Technology	UG	Computer Science and Engineering	1998	--	Computer Science and Engineering

7	Engineering & Technology	PG	Computer Science and Engineering (Data Science)	2019	--	Computer Science and Engineering
8	Engineering & Technology	PG	Construction Technology and Management	2022	--	Civil Engineering
9	Engineering & Technology	PG	Cyber Security	2022	--	Computer Science and Engineering
10	Engineering & Technology	PG	Design Engineering	2022	--	Mechanical Engineering
11	Engineering & Technology	PG	Electric Vehicle Technology	2022	2024	Electrical Engineering
12	Engineering & Technology	UG	Electrical Engineering	1995	--	Electrical Engineering
13	Engineering & Technology	UG	Electronics & Communication Engineering	1995	--	Electronics and Communication Engineering
14	Engineering & Technology	UG	Electronics & Instrumentation Engineering	1995	--	Electronics and Instrumentation Engineering
15	Engineering & Technology	PG	Embedded Systems	2012	--	Electronics and Communication Engineering
16	Engineering & Technology	PG	Masters in Computer Applications	1999	--	Computer Science and Engineering
17	Engineering & Technology	UG	Mechanical Engineering	1995	--	Mechanical Engineering
18	Engineering & Technology	PG	Robotics and Artificial Intelligence	2025	--	Electronics and Instrumentation Engineering
19	Engineering & Technology	PG	Semiconductor Technology	2024	--	Electronics and Communication Engineering
20	Engineering & Technology	PG	VLSI Design	2003	--	Electronics and Communication 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
Electrical Engineering	No	Electrical Engineering	UG
Electronics and Instrumentation Engineering	No	Electronics & Instrumentation Engineering	UG
Civil Engineering	No	Civil 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	1996 / --	120	No	NA	120	1996	UGC	Granted accreditation for 3 years for the period (specify period)	2024	2026	1	4

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 :	Parul Ruchir Patel
B. Nature of appointment:	Regular
C. Qualification:	Ph.D

B3. Program Details

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

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	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)	120	120	120	120	120	120	120
N1=Total no. of students admitted in the 1st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	130	136	141	117	130	124	135
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	14	14	40	20	23	16
N3=Separate division if any	0	0	0	0	0	0	0
N4=Total no. of students admitted in the 1st year via all supernumerary quotas	6	6	7	8	8	7	7

Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	136	156	162	165	158	154	158

CAY= Current Academic Year. CAYm1= Current Academic Year Minus 1 CAYm2= Current Academic Year Minus 2. LYG= Last Year Graduate. LYGm1= Last Year Graduate Minus 1. LYGm2= Last Year Graduate Minus 2.

B4. Enrolment Ratio in the First Year

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

Year of entry	N (From Table 4.1)	N1 (From Table 4.1)	N4 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2025-26 (CAY)	120	130	6	113.33
2024-25 (CAYm1)	120	136	6	118.33
2023-24 (CAYm2)	120	141	7	123.33

Average [(ER1 + ER2 + ER3) / 3] = 118.33≡ 100

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).	158.00	154.00	158.00
B=No. of students who graduated from the program in the stipulated course duration	141.00	138.00	151.00
Success Rate (SR)= (B/A) * 100	89.24	89.61	95.57

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 91.47

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)
X=(Mean of 1st 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 1st year/10)	6.99	7.09	7.21
Y=Total no. of successful students	139.00	146.00	116.00
Z=Total no. of students appeared in the examination	142.00	148.00	125.00
API [X*(Y/Z)]	6.84	6.99	6.69

Average API[(AP1+AP2+AP3)/3] : 6.84

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 2rd year/10)	6.88	7.21	7.41
Y=Total no. of successful students	150.00	155.00	143.00
Z=Total no. of students appeared in the examination	160.00	156.00	157.00
API [X * (Y/Z)]	6.45	7.16	6.75

Average API [(AP1 + AP2 + AP3)/3] : 6.79

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)	7.28	7.46	7.44
Y=Total no. of successful students	148.00	142.00	142.00
Z=Total no. of students appeared in the examination	155.00	143.00	150.00
API [X*(Y/Z)]:	6.95	7.41	7.04

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

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	142.00	143.00	152.00
X=No. of students placed	50.00	51.00	71.00
Y=No. of students admitted to higher studies	44.00	44.00	42.00
Z= No. of students taking up entrepreneurship	13.00	20.00	17.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	75.35	80.42	85.53

Average Placement Index = (P_1 + P_2 + P_3)/3: 80.43 Placement Index Points:

PART C: Faculty Details in Department and Allied Departments

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

C1. Faculty details of Department and Allied Departments

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

Sr.No	Name of the Faculty	PAN No.	Highest degree	University	Area of Specialization	Date of Joining in this Institution	Experience in years in current institute	Designation at Time Joining in this Institution	Present Designation	The date on which Designated as Professor/ Associate Professor if any	Nature of Association (Regular/ Contract/ Ad hoc)	Currently Associated (Y/N)	In case of NO, Date of Leaving	IS HOD?
1	Sunil Dineshbhai Raiyani	XXXXXXX46K	Ph.D	Nirma University	Structural Engineering	25/05/2015	10.4	Assistant Professor	Assistant Professor		Regular	Yes		No
2	Jahanvi Miteshkumar Suthar	XXXXXXX96N	Ph.D	Nirma University	Structural Engineering	15/05/2009	16.5	Assistant Professor	Assistant Professor		Regular	Yes		No
3	Parul Ruchir Patel	XXXXXXX45R	Ph.D	IIT Bombay	Construction Technology & Management	17/08/1995	30.2	Lecturer	Professor	17/07/2013	Regular	Yes		Yes
4	Paresh Vardhamandas Patel	XXXXXXX89A	Ph.D	The M. S. University, Baroda	Structural Engineering	01/01/1997	28.9	Lecturer	Professor	01/05/2007	Regular	Yes		No
5	Urmil Vatsalbhai Dave	XXXXXXX53C	Ph.D	IIT Bombay	Structural Engineering	01/09/1997	28.1	Lecturer	Professor	09/12/2011	Regular	Yes		No
6	Sharadkumar Purnanand Purohit	XXXXXXX64L	Ph.D	IIT Bombay	Structural Engineering	28/02/2003	22.7	Lecturer	Professor	11/07/2013	Regular	Yes		No
7	Sonal Pragnesh Thakkar	XXXXXXX60N	Ph.D	Nirma University	Structural Engineering	21/12/1999	25.10	Lecturer	Associate Professor	01/02/2022	Regular	Yes		No
8	Kamalendra Kumar Tripathi	XXXXXXX33H	Ph.D	IIT Delhi	Construction Technology & Management	21/06/2022	3.3	Associate Professor	Associate Professor		Regular	Yes		No
9	Digesh Dilipkumar Joshi	XXXXXXX09Q	Ph.D	Nirma University	Structural Engineering	06/06/2011	14.4	Assistant Professor	Assistant Professor		Regular	Yes		No
10	Tejas Mukundbhai Joshi	XXXXXXX89D	Ph.D	Nirma University	Structural Engineering	01/08/2013	12.2	Assistant Professor	Assistant Professor		Regular	Yes		No
11	Utsav Kamalbhai Koshti	XXXXXXX04E	Ph.D	Nirma University	Structural Engineering	29/03/2014	11.6	Assistant Professor	Assistant Professor		Regular	Yes		No

12	Alka Murari Shah	XXXXXXX79A	M.E.	L. D. Engineering College, Ahmedabad	Geotechnical Engineering	29/05/2015	10.4	Assistant Professor	Assistant Professor		Regular	Yes		No
13	Hasan Mohammedi Rangwala	XXXXXXX69A	Ph.D	IIT, Roorkee	Geotechnical Engineering	30/05/2015	10.4	Assistant Professor	Assistant Professor		Regular	Yes		No
14	Vineet Gautamchand Kothari	XXXXXXX74K	M.E.	L. D. Engineering College, Ahmedabad	Structural Engineering	18/04/2016	9.6	Assistant Professor	Assistant Professor		Regular	Yes		No
15	Arth Jtendrakumar Patel	XXXXXXX22P	M.Tech	Dharmsinh Desai University,Nadiad	Structural Engineering	28/07/2016	9.2	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
16	Anant Darshanbhai Patel	XXXXXXX29K	Ph.D	SVNIT, Surat	Water Resources Engineering	27/06/2017	8.3	Assistant Professor	Assistant Professor		Regular	Yes		No
17	Keval Hareshbhai Jodhani	XXXXXXX60L	Ph.D	PDEU, Gandhinagar	Water Resources Engineering	02/07/2018	7.3	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
18	Manish Dutta	XXXXXXX26N	Ph.D	NIT, Silchar	Transportation Engineering	16/08/2021	4.2	Assistant Professor	Assistant Professor		Regular	Yes		No
19	Swati Sirsant	XXXXXXX84M	Ph.D	IIT, Bombay	Water Resources Engineering	16/05/2022	3.5	Assistant Professor	Assistant Professor		Regular	Yes		No
20	Nitesh Gupta	XXXXXXX08K	Ph.D	IIT,BHU	Water Resources Engineering	01/07/2022	3.3	Assistant Professor	Assistant Professor		Regular	Yes		No
21	Prachi Kushwaha	XXXXXXX22F	Ph.D	IIT, Jaipur	Transportation Engineering	04/07/2022	3.3	Assistant Professor	Assistant Professor		Regular	Yes		No
22	Naman Katesaria	XXXXXXX15F	Ph.D	IIT, Gnadhinagar	Geotechnical Engineering	15/07/2022	3.3	Assistant Professor	Assistant Professor		Regular	Yes		No
23	Lukman Mansuri	XXXXXXX78A	Ph.D	SVNIT, Surat	Construction Technology & Management	07/11/2022	2.11	Assistant Professor	Assistant Professor		Regular	Yes		No
24	Purvesh Raval	XXXXXXX49D	M.E.	PDEU, Gnadhinagar	Construction Technology & Management	09/02/2023	2.8	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
25	Indrajeet Kumar	XXXXXXX02Q	Ph.D	IIT, Kharagpur	Environmental Engineering	15/07/2023	2.3	Assistant Professor	Assistant Professor		Regular	Yes		No

26	Devi Sendhil	XXXXXXX70F	M.E.	Sastra Deemed University, Tamilnadu	Construction Technology & Management	20/08/2024	1.1	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
27	Aakansha Agrawal	XXXXXXX99J	Ph.D	NIT, Raipur	Environmental Engineering	12/07/2024	1.3	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
28	Ansuya Sahu	XXXXXXX45K	Ph.D	IIT, Jamshedpur	Structural Engineering	09/07/2025	0.3	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
29	Triptisingh Rajput	XXXXXXX15E	Ph.D	IIT, Bombay	Transportation Engineering	03/05/2025	0.2	Assistant Professor	Assistant Professor		Regular	No	05/07/2025	No
30	Somya Agrawal	XXXXXXX87A	Ph.D	BITS, PIlani	Environmental Engineering	07/07/2025	0.3	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
31	Vishal Lad	XXXXXXX10C	Ph.D	SVNIT, Surat	Construction Technology & Management	16/01/2023	1.7	Assistant Professor	Assistant Professor		Contractual Fulltime	No	23/08/2024	No
32	Kumkum Bhattacharjee	XXXXXXX43M	Ph.D	PDEU, Gandhinagar	Transportation Engineering	12/07/2024	0.5	Assistant Professor	Assistant Professor		Contractual Fulltime	No	31/12/2024	No
33	Pooja Kapoor	XXXXXXX78E	M.Tech	RCEM, Nagpur	Structural Engineering	12/07/2024	0.4	Assistant Professor	Assistant Professor		Contractual Fulltime	No	30/11/2024	No
34	Apurvakumar Prajapati	XXXXXXX71D	M.E.	L. D. Engineering College, Ahmedabad	Geotechnical Engineering	12/07/2024	0.5	Assistant Professor	Assistant Professor		Contractual Fulltime	No	31/12/2024	No
35	Amit Sharma	XXXXXXX57F	M.Tech	Nirma University	Structural Engineering	12/07/2024	0.5	Assistant Professor	Assistant Professor		Contractual Fulltime	No	31/12/2024	No
36	Smita Langalia	XXXXXXX45A	M.E.	The M. S. University, Baroda	Water Resources Engineering	12/07/2024	0.5	Assistant Professor	Assistant Professor		Contractual Fulltime	No	31/12/2024	No
37	Somil Thakur	XXXXXXX35E	Ph.D	VIT, Vellore	Environmental Engineering	16/01/2023	0.11	Assistant Professor	Assistant Professor		Regular	No	22/12/2023	No
38	Hemang Amrutlal Dalwadi	XXXXXXX79J	M.Tech	CEPT University, Ahmedabad	Transportation Engineering	01/05/2014	10.1	Assistant Professor	Assistant Professor		Regular	No	31/05/2024	No

Table No.C2: Faculty details of Allied Departments for the past 3 years including CAY.

C2. Student-Faculty Ratio (SFR)

No. of UG(Engineering) programs in Department including allied departments/ clusters (UGn):
UG1=1st UG program
UGn=nth UG program
B= No. of Students in UG 2nd year (ST)
C= No. of Students in UG 3rd year (ST)

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

No. of UG Programs in the Department1 No. of PG Programs in the Department2

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

Description	**CAY(2025-26)**	**CAYm1 (2024-25)**	**CAYm2 (2023-24)**
UG1.B	132	132	132
UG1.C	132	132	132
UG1.D	132	132	132
UG1: Civil Engineering	**396**	**396**	**396**
PG1.A	18	18	18
PG1.B	18	18	18
PG1: Computer Aided Structural Analysis & Design	**36**	**36**	**36**
PG2.A	18	18	18
PG2.B	18	18	18
PG2: Construction Technology and Management	**36**	**36**	**36**
DS=Total no. of students in all UG and PG programs in the Department	468	468	468
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=** 468	**S2=** 468	**S3=** 468
DF=Total no. of faculty members in the Department	29	27	27
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=** 29	**F2=** 27	**F3=** 27
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= 16.14**	**SFR2= 17.33**	**SFR3= 17.33**
Average SFR for 3 years	**SFR= 16.93**		

C3. Faculty Qualification

- Faculty qualification index (FQI) = 2.5 * [(10X +4Y)/RF] where
- X=No. of faculty members with Ph.D. degree or equivalent as per AICTE/UGC norms.
- Y=No. of faculty members with M. Tech. or ME degree or equivalent as per AICTE/ UGC norms.
- RF=No. of required faculty in the Department including allied Departments to adhere to the 20:1 Student-Faculty ratio, with calculations based on both student numbers and faculty requirements as per section C2 of this documents: (RF=S/20).

Table No.C3.1: Faculty qualification.

Year	X	Y	RF	FQ = 2.5 x [(10X + 4Y) / RF)]
2025-26(CAY)	24	5	23.00	28.26
2024-25(CAYm1)	17	10	23.00	22.83
2023-24(CAYm2)	16	11	23.00	22.17

C4. Faculty Cadre Proportion

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

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

Year	Professors		Associate Professors		Assistant Professors	
	Required RF1	Available AF1	Required RF2	Available AF1	Required RF3	Available AF3
2025-26	2.00	4.00	5.00	2.00	15.00	16.00
2024-25	2.00	4.00	5.00	2.00	15.00	16.00
2023-24	2.00	4.00	5.00	2.00	15.00	17.00
Average	RF1=2.00	AF1=4.00	RF2=5.00	AF2=2.00	RF2=15.00	AF2=16.33

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.

(CAYm1)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Smita Langalia	Assistant Professor	SAL Institute	Environmental Science, Hydraulics and water resources Engineering, Professional Practice	240.00
2	Swati Kothary	Assistant Professor	Institute of Architecture, Nirma University	Urban Planning and management	30.00
3	Shashikant Joshi	Assistant Professor	Mechanical Engineering Dept. IT-NU	Composite Materials	15.00
4	B S Munjal	Professor of Practice	Civil Engineering Dept., IT-NU	Major Project, Research Methodology, Minor Project, C2C	135.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Swati Kothary	Assistant Professor	Institute of Architecture, Nirma University	Urban Planning and management	30.00
2	V M Rana	Professor of Practice	Civil Engineering Dept., IT-NU	Road safety and mgt., CEDBP, Minor Project, Water Resources and Irrigation Engg, Major Project	315.00
3	B S Munjal	Professor of Practice	Civil Engineering Dept., IT-NU	Major Project, Introduction to Research Methodology, Composite Materials, Str. Mech., Minor Project	165.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Shiv Mohan	Ret. Scientist	ISRO	Remote Sensing, GIS and GPS	10.00
2	Dhaval Shah	Assistant Professor	Mechanical Engineering Dept. IT-NU	Composite Materials	15.00
3	V M Rana	Professor of Practice	Civil Engineering Dept., IT-NU	CEDBP, IWM, Major Project, Water Resources and Irrigation Engineering, FM, Minor Project	240.00
4	B S Munjal	Professor of Practice	Civil Engineering Dept., IT-NU	Major Project, Introduction to Research Methodology, Minor Project	60.00

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	32	36	24

2	No. of peer reviewed conference papers published	23	33	21
3	No. of books/book chapters published	17	18	10

C7. Sponsored Research Project

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

(CAYm1)

PI Name	**Co-PI names if any**	**Name of the Dept., where project is sanctioned**	**Project Title***	**Name of the Funding agency**	**Duration of the project**	**Amount(Lacs) i.e. 15,25,000=15.25**
Dr. P. R. Patel		Civil Eng.	Calibration and Validation of RISAT-1 SAR Sensor	SAC, ISRO	12	11.75
Dr. Jayesh Ruparelia	1. Dr. Urmil Dave 2. Mr. Dipak Bholanda	Civil Eng.	Studies and Prototype Development for Recycle and Reuse of Waste Streams from Stainless Steel Industries	GUJCOST	3	22.33
Dr. Tejas Joshi (PI)	Dr Urmil Dave	Civil Eng.	Feasibility study of use of Polyurethane Foam Water in Paver Block	Q-BO Technologies Pvt. Ltd	2	10.00
Dr. Sonal Thakkar	Dr Urmil Dave Dr Bhoomi Andharia	Civil Eng.	Deployment of Sustainable Concrete for Reducing Brine Water Losses in Earthen Salt Pans: An Experimental Investigation at CSIR- CSMCRI, Bhavnagar	GUJCOST	3	32.51
Dr Sonal Thakkar	Dr Urmil Dave	Civil Eng.	Experimental Investigation On The Use Of Kaolinite Mining Waste As A Replacement For Natural Fine Aggregate In Concrete	Q-BO Technologies Pvt. Ltd	2	10.00
Dr Sibhu Pillai	Dr. U V Dave Mr. Manish Kuchya	Civil Eng. & Chemical Eng.	Design and development of Green Cement	CoE- DDU	1	0.75
Dr.Sonal Thakkar	Dr Urmil Dave Dr Bhoomi Andharia	Civil Eng.	Use of Recycled C&D waste, Fly Ash, Bottom Ash, Dredged Marine Sand and Gypsum for construction	DST	2	61.35
						Amount received (Rs.):148.69

(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. S. D. Raiyani	Dr. P. V. Patel Dr. S. S. Prakash	Civil Eng.	Torsional Behaviour of Reinforced Concrete Elements Strengthened with Stainless Steel Wire Mesh	SERB-TARE	3	18.30
Dr Manish Dutta	Dr Suprava Jena	Civil Eng.	Reducing riders' discomfort due to speed bumps without compromising their speed reduction abilities	SERB POWER	2	8.67
Dr. Digesh D. Joshi	Dr. Paresh V. Patel	Civil Eng.	Experimental and numerical studies on Stainless Steel Wire Mesh (SSWM) strengthened	SERB-SURE	3	25.00
Dr. Kaustav Sarkar	Dr. Kashyap A Patel Dr. Lukman E Mansuri	Civil Eng.	Towards a Circular Economy: Exploring Nanotechnology, Plastics, and Additive Manufacturing for Development of Sustainable Concrete	SPARC-UKERI	2	44.16
						Amount received (Rs.):96.13

(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. Sharad Purohit	Prof. Kunal D. Kansara	Civil Eng.	Experimental Investigations on RC Girder Model of Bridge with Half-joint and Retrofitting Strategies	QR Global Challenges Research Fund (GCRF) at Liverpool John Moores University (LJMU), UK	1	1.98
Dr. U. V. Dave	Prof. Monower Sadiq & Prof. Kunal D. Kansara	Civil Eng.	Development of a low-carbon cementitious material by recycling Calcium Carbide Residue (CCR) waste from foundation industries to decarbonise construction sector	Innovate UK in association with Liverpool John Moores University (LJMU), UK	1	53.80
Prof. Sonal Thakkar	Dr. U. V. Dave and Dr. Bhoomi R. Andharia	Civil Eng.	Use of Recycled C &D waste, Fly ash, Bottom Ash, Dredged Marine Sand and Gypsum for construction of sustainable salt pan beds for enhancement of salt productivity through Prevention of Brine Percolation	DST	1	9.90
						Amount received (Rs.):65.68

Total Amount (Lacs) Received for the Past 3 Years: 310.50

Note*:

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

C8. Consultancy Work

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

(CAYm1)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Patel Anant Darshanbhai		Civil Engineering Department	Environment Audit	Gujarat Narmada Valley Fertilizers and Chemicals Ltd	04/01/2023 to 30/06/2024	1.38
Joshi Tejas Mukunbhai		Civil Engineering Department	Cement test - Physical properties	Gharpure Engineering And Construction Private Limited	03-11-2024 to 24-05-2024	0.10
Patel Anant Darshanbhai		Civil Engineering Department	Environment Audit	Torrent Pharmaceuticals Ltd.	04-01-2023 to 30-06-2024	2.31
Joshi Tejas Mukunbhai		Civil Engineering Department	Study the effect of multi-layered insulation material on reduction in temperature of room surface	Floor Guard Solution Pvt Ltd	19-12-2023 to 29-05-2024	0.30
Patel Anant Darshanbhai		Civil Engineering Department	Environment Audit	Umiya Enviro Project Llp	04-01-2023 to 30-06-2024	1.54
Patel Anant Darshanbhai		Civil Engineering Department	Environment Audit	Willowood Industries Pvt Ltd.	04-01-2023 to 30-06-2024	1.01
Joshi Tejas Mukunbhai		Civil Engineering Department	Compressive & flexural Test on alumino silicate composite Sample	Indian Institute of Technology, Gandhinagar	20-04-2024 to 20-05-2024	0.09
Patel Anant Darshanbhai		Civil Engineering Department	Environment Audit	Pratiksha Chemical Ltd	04-01-2023 to 30-06-2024	2.02
Joshi Tejas Mukunbhai		Civil Engineering Department	NDT Test for reinforced concrete structure	Mevada Green Party Plot	24-06-2024 to 30-06-2024	0.42
Dave Urmil Vatsalbhai		Civil Engineering Department	Concrete Mix Design	Mundra Solar Energy Limited	20-09-2024 to 21-08-2024	1.00
Patel Paresh Vardhmandas		Civil Engineering Department	TMT Coupler Tension Test	Nirma Limited	30-05-2024 to 15-6-2024	0.09
Patel Paresh Vardhmandas		Civil Engineering Department	Proof Checking of Structural Design for Fire Station Cum Multilevel Parking at Danapith	Ahmedabad Municipal Corporation	14-11-2024 to 26-11-2019	0.87
Utsav K Koshti		Civil Engineering Department	proof checking of structural design work for New division office building for SSNL at Visnagar	Exe.Eng.Dharoi Canal Div No 3 Dharoi	26-10-2024	1.00
Purohit Sharadkumar Puranand		Civil Engineering Department	Evaluation of Mechanical Strength of UHPC Beam and Column of M100 Grade Concrete	Aarya Precast India Pvt Ltd	21-10-2024 to 26-10-2024	0.21
Manish Dutta		Civil Engineering Department	Black Spot Investigation at Degmar Lake, Talod	Gujarat Road Safety Authority	09-09-2024	0.25
Joshi Tejas Mukunbhai		Civil Engineering Department	Concrete cube compressive strength	Anaya Infracon Pvt. Ltd.	10-11-2024 to 23-10-2024	0.05
Patel Anant Darshanbhai		Civil Engineering Department	Environment Audit	Zydus Infrastructure Pvt Ltd.	04-01-2023 to 30-06-2024	1.76
Patel Anant Darshanbhai		Civil Engineering Department	Environment Audit	Torrent Pharmaceuticals Ltd.	04-01-2023 to 30-06-2024	4.13

Utsav K Koshti		Civil Engineering Department	Proof checking for structural design	Associate Construction Co	04-01-2023 to 31-03-2024	0.90
						Amount received (Rs.):19.43

(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
Patel Paresh Vardhmandas		Civil Engineering Department	Proof checking of Structural Design - JCB India Jaipur project	Sijcon Consultants Pvt. Ltd	02-06-2023 to 11-01-2024	0.25
Patel Anant Darshanbhai		Civil Engineering Department	Environment Audit	Maharaja International U/O Pawan Cement Ltd	04-01-2023 to 31-03-2024	2.99
Patel Anant Darshanbhai		Civil Engineering Department	Environment Audit	Jay Chemical Industries Private Limited	04-06-2023 to 31-03-2024	5.88
Patel Anant Darshanbhai		Civil Engineering Department	Environment Audit	E–Coli Waste Management Pvt Ltd	04-06-2023 to 31-03-2024	2.27
Patel Anant Darshanbhai		Civil Engineering Department	Environment Audit	Aculife Health Care Private Limited	04-06-2023 to 31-03-2024	3.47
Purohit Sharadkumar Puranand		Civil Engineering Department	Proof checking of structural design for multilevel parking cum commercial complex at Chandlodiya in Ahmedabad Municipal Corporation	Ahmedabad Municipal Corporation	26/11/2019 to 16-06-2023	2.00
Patel Anant Darshanbhai		Civil Engineering Department	Environment Audit	Harsh Organochem Pvt Ltd	04-06-2023 to 31-03-2024	2.82
Joshi Tejas Mukunbhai		Civil Engineering Department	Evaluation of Compressive strength of M 30 HRC Grade Concrete	Desai Construction Pvt Ltd	19/07/2023 to 20-07-2023	0.06
Joshi Tejas Mukunbhai		Civil Engineering Department	Compressive strength of Composite sample	Indian Institute Of Technology, Gandhinagar	22/09/2023 to 25-09-2023	0.04
Patel Anant Darshanbhai		Civil Engineering Department	Environment Audit	Gujarat Narmada Valley Fertilizers And Chemicals Ltd	04-06-2023 to 31-03-2024	1.23
Patel Anant Darshanbhai		Civil Engineering Department	Environment Audit	Alembic Limited	04-06-2023 to 31-03-2024	1.52
Dave Urmil Vatsalbhai		Civil Engineering Department	Training Programme	Shree Digvijay Cement	13-11-2023 to 21-11-23	0.82
Patel Anant Darshanbhai		Civil Engineering Department	Environment Audit	Gujarat Narmada Valley Fertilizers And Chemicals Ltd	04-06-2023 to 31-03-2024	1.39
Patel Anant Darshanbhai		Civil Engineering Department	Environment Audit	Alembic Limited	04-06-2023 to 31-03-2024	1.70
Patel Anant Darshanbhai		Civil Engineering Department	Environment Audit	Torrent Pharmaceuticals Ltd	04-06-2023 to 31-03-2024	4.04
Patel Anant Darshanbhai		Civil Engineering Department	Environment Audit	Willowood Industries Pvt Ltd	04-06-2023 to 31-03-2024	1.67
Patel Anant Darshanbhai		Civil Engineering Department	Environment Audit	Sun Pharmaceutical Industries Ltd	04-06-2023 to 31-03-2024	2.73

Patel Paresh Vardhmandas		Civil Engineering Department	Proof checking of structural design for fire station cum multi-level parking at Danapith	Ahmedabad Municipal Corporation	26/11/2019 to 15-02-2024	2.62
Patel Anant Darshanbhai		Civil Engineering Department	Environment Audit	Alembic Limited	04-06-2023 to 31-03-2024	1.88
Patel Anant Darshanbhai		Civil Engineering Department	Environment Audit	Sun Pharmaceutical Industries Ltd	04-06-2023 to 31-03-2024	1.66
Patel Anant Darshanbhai		Civil Engineering Department	Environment Audit	A One Green Environment Project LLP	04-06-2023 to 31-03-2024	1.26
Patel Anant Darshanbhai		Civil Engineering Department	Environment Audit	Rhythm Biocare	04-06-2023 to 31-03-2024	1.43
						Amount received (Rs.):43.73

(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
Hingekar Karishma Durgesh		Civil Engineering Department	Environmental Audit	Tata Motors Passenger Vehicle Limited.	01-04-2022 to 31-03-2023	1.50
Rangwala Hasan Mohammedi		Civil Engineering Department	Soil investigation work	Nirma Limited	02-04-2022 to 30-04-2022	1.10
Dave Urmil Vatsalbhai		Civil Engineering Department	Concrete cube compressive strength	Shaswat Heights	15-03-2022 to 06-07-2022	0.07
Dave Urmil Vatsalbhai		Civil Engineering Department	Training programme on building construction water proofong, module II, batch -3	Pidilite Industries Limited	20-06-2022 to 05-07-2022	1.00
Patel Anant Darshanbhai		Civil Engineering Department	Water Testing	Maheshwari Engineers	20-05-2022 TO 25-05-2022	0.01
Hingekar Karishma Durgesh		Civil Engineering Department	Environment Audit	Torrent Power Limited	01-04-2022 to 31-03-2023	0.25
Patel Paresh Vardhmandas		Civil Engineering Department	Fire Resistance Test on Precast Beam	Urbanaac Infrastructure Pvt. Ltd.	26-08-2022 to 14-09-2022	0.15
Dave Urmil Vatsalbhai		Civil Engineering Department	Concrete Mix Design	Anon Infra Management Llp	08-06-2022 to 01-08-2022	0.10
Patel Paresh Vardhmandas		Civil Engineering Department	Tiles Testing	Umiya Vijay Infracon	12-01-2023 to 30-01-2023	0.03
Dave Urmil Vatsalbhai		Civil Engineering Department	Concrete Mix Design	LCC Projects Private Limites	19-04-2022 TO 14-06-2022	0.18
Dave Urmil Vatsalbhai		Civil Engineering Department	Heat Resisting Concrete Testing	Jindal Saw Limited	29-06-2022 to 15-08-2022	0.69
Dave Urmil Vatsalbhai		Civil Engineering Department	Tile Adhesive Product	Cera Sanitaryware Limited	22-07-2022 to 16-09-2022	0.24
Dave Urmil Vatsalbhai		Civil Engineering Department	Training programme on building construction water proofing	Pidilite Industries Limited	02-09-2022 to 17-09-2022	1.00
Purohit Sharadkumar Puranand		Civil Engineering Department	Proof Checking of structural Design of building of JCB India- Jaipur	Sijcon Consultants Pvt.	31-12-2022 to 02-03-2022	0.75
Patel Paresh Vardhmandas		Civil Engineering Department	Flexural Test on Precast Beam	Urbanaac Infrastructure Pvt. Ltd	31-01-2023 to 25-02-2023	0.12
Joshi Digesh Dilipkumar		Civil Engineering Department	Testing Glazed Tile	Umiya Vijay Infracon	01-03-2023 to 30-03-2023	0.13
Joshi Tejas Mukundbhai		Civil Engineering Department	Glazed, Vitrified Tile Testing	Anaya Infracon Pvt Ltd	01-03-2023 to 30-03-2023	0.12
Joshi Tejas Mukundbhai		Civil Engineering Department	Evaluation of Compressive Strength of M30 Grade Concrete	Desai Construction Pvt Ltd	10-03-2023 to 12-03-2023	0.06

Joshi Digesh Dilipkumar		Civil Engineering Department	Chequred and Vitrified Tile Testing	Karmik Infravison C/O (Soham Infra Group)	02-03-2023 to 30-03-2023	0.06
Patel Anant Darshanbhai		Civil Engineering Department	Environment Audit	Rhythm Biocare	01-04-2022 to 31-03-2023	2.15
Patel Paresh Vardhmandas		Civil Engineering Department	Proof Checking of structural Design of sports complex at Naranpura	Ahmadabad Municipal Corporation	01-01-2023 to 31-03-2023	5.00
Patel Anant Darshanbhai		Civil Engineering Department	Environment Audit	The Narol Dyestuff Enviro Society	01-04-2022 to 31-03-2023	1.21
Patel Anant Darshanbhai		Civil Engineering Department	Environment Audit	Aculife Health Care Private Limited	01-04-2022 to 31-03-2023	0.60
Patel Paresh Vardhmandas		Civil Engineering Department	Fire Resistance test on Precast Hollow Core Slab	Urbanaac Infrastructure pvt. ltd	01-08-2022 to 30-09-2022	0.15
Patel Paresh Vardhmandas		Civil Engineering Department	Water Absorption of Concrete Block	Urbanaac Infrastructure pvt. ltd	01-02-2023 to 28-02-2023	0.00
Patel Paresh Vardhmandas		Civil Engineering Department	Evaluate the precast column under axial compression	Urbanaac Infrastructure pvt. ltd	01-02-2023 to 28-02-2023	0.06
Patel Paresh Vardhmandas		Civil Engineering Department	Flexural performance of fire affected beam	Urbanaac Infrastructure pvt. ltd	01-02-2023 to 28-02-2023	0.27
						Amount received (Rs.):17.00

Total amount (Lacs) received for the past 3 years: 80.16

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
Dr. Indrajeet Kumar (PI), Dr. Hasan Rangwala (Co-PI) and Dr. Hardik Bhatt (Mentor)	Preparation of silica-hydrochar nanocomposites for water and wastewater treatment's	1 Yr	1.00	0.95	U.G Students Hiral Chauhan (22BCL504) and Jahanvi Bhagora (22BCL507) have carried our Research Project.
Dr. D. D. Joshi (PI), Dr. P. V. Patel (Mentor)	Performance of SSWM strengthened interior precast beam-column connections under cyclic Loading	1 Yr	1.00	0.99	Ph.D Student Rinkesh Makawana (21PTPHDE239) have carried our Research work.
Dr. Swati Sirsant (PI), Prof. Anant Patel (Co-PI)	Identification of Flood-Afflicted Roads using Remote Sensing and Social Media Data	1 Yr	0.75	0.72	U.G Students Lakhani Niket (22BCL060), and Manan Upadhyay (22BCL052) were involved and paper was published.
Prof. Pratima Singh (PI), Dr. Tejas Joshi (Co-PI)	Exploring the potential use of stone dust for construction building material	2 yr	2.00	1.00	U.G & P.G students involved for research project.
			Amount received (Rs.): 4.75		

(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
Dr. Naman Kantesaria (PI), Dr. Hasan Rangwala (Co-PI	Sustainable Technique of Desiccation Crack Mitigation in Expansive Soil using Natural Fibres	1 yr	1.00	0.97	U.G Students were involved in project work Chirag Varma (21BCL504) Kashish Khushalani (21BCL509). A journal paper was published.
Dr. Manish Dutta (PI) Dr. Manish Dutta (PI), Prof. Hemang Dalwadi (Co-PI), Dr. B. S. Munjal (Mentor)	Estimating risk involved in evasive action of vehicles at unsignalized intersections	1 yr	0.60	0.59	U.G Students Bansil Korat (19BCL049), Sarthak Bhandari (19BCL009) carried out U.G Research project. Journal Paper published
Dr Paresh Patel, Dr Digesh Joshi	Strengthening Precast Beam Column Connections using Stainless Steel Wire Mesh (SSWM)	1 yr	28.40	28.20	Ph.D Student Rinkesh Makawana (21PTPHDE239) and P.G Student Kevin Patel (20MCLC12) involved
Prof. Utsav Koshti (PI), Dr. Sharad Purohit (Mentor)	Experimental Study on Particle Damper for the Model Building	1 yr	1.00	0.99	P.G Student Patel Abhishek (20MCLC08) have carried our Research Project
Dr. Swati Sirsant (PI), Prof. Anant Patel (Co-PI) Dr. V. M. Rana (Mentor)	Enhanced Flood Inundation Mapping using Near Real-time Satellite Imagery and Real-Time Geo-Tags	1 yr	0.75	0.70	Two students presented a poster in Student Research Symposium
Dr. Prachi Kushwaha (PI), Prof. Hemang Dalwadi (Co-PI) Dr. B. S. Munjal (Mentor)	Evaluating the effectiveness of different warm mix additives on binder properties	1 yr	0.97	0.85	U.G Students Shreyansh Shah (21BCL126) and Dhrashti Gosai (21BCL037) have carried our Research Project.
Dr. Nitesh Gupta (PI), Prof. Anant Patel (Co-PI) Dr. V. M. Rana (Mentor)	Identification of flood prone area using HEC-RAS: A case study of Sukal River Gujarat	1 yr	0.75	0.48	U.G students involved in this project and carried out a project work.
			Amount received (Rs.): 33.47		

(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
Dr.Sonal Thakkar	Study of Self-Compacting Metakaolin-based Alkali-Activated Concrete	1 yr	1.00	1.00	Ph.D Student Ms Ridhi Vora 19FTPHDE32 have carried our Research Project
Dr. Manish Dutta (PI) Prof. Hemang Dalwadi (Co-PI)	Reducing riders' discomfort due to speed breakers	1 yr	1.00	0.71	U.G Students Advani, Nainesh (19BCL003), Het Danak (19BCl023) involved.
Prof Vineet Kothari (PI) Dr.Urmil Dave (Mentor)	Evaluation of Durability Properties and	1 yr	1.00	0.58	A book chapter was published in Springer.
Prof. Utsav Koshti (PI) Dr. Sharadkumar Purohit (Mentor)	Development of Pneumatic Base Hysteresis type cost effective	1 yr	1.00	1.00	P.G Student Patel Abhishek (20MCLC08) was involved
Dr.Sonal Thakkar (PI) Dr.Urmil Dave (Mentor)	Study on Self-Healing Capability of Calcium Nitrate	1 yr	1.00	1.00	Ph.D Student Ms Ridhi Vora 19FTPHDE32 have carried our Research
Prof. Alka Shah (PI) Dr. Hasan Rangwala (Co-PI)	Use of solid waste for subgrade improvement	1 yr	0.80	0.80	U.G Students Avish Shah (18BCL006), Preet Jain (18BCl088) have carried our Research
Dr.Digesh Joshi (PI) Dr. Paresh V. Patel (Mentor	Evaluation of Mechanical and Durability Properties of GFRP-SSWM hybrid wraps	1 yr	1.00	1.00	P.G Student Anilkumar Jitarwal (21MCLC02), Meet Limbachiya (20MCLC03) and Vipul Kalyani (20FTPHDE48) involved
			Amount received (Rs.): 6.80		

Total amount (Lacs) received for the past 3 years : 45.02

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	Geotechnical Engineering	18	Digital Triaxial Compression Test Apparatus, Block vibration test apparatus, Digital Direct shear test apparatus with pull out test arrangement	26	Mr. Rajendra. D. Shal	Laboratory Superviso	B.Sc. in Chemistry
2	Water Resources and Hydraulic Engineering	18	Hydraulic Model Structure Demonstrator, Soil Tensiometer, Double Ring Infiltrometer, Non-Recording Rain Gauge, Automatic Rain Gauge	23	Mr. Satyaprakash Cha	Laboratory Assistant	B E in Civil Engineeri

3	Surveying	18	Total Station (Pentax Window CE Total Station (Model:W-1505N), GNSS Receiver, Total Station (Model:W-805NX), Total Station (Pentax Window	28	Mr. Mahendarsinh Ra	Laboratory Assistant	B E in Civil Engineeri
4	Construction Material Laboratory	18	Tensile Testing Machine, CLC Block Making Machine, Concrete Planetary Mixer, Vertical ball mill, Rheometer, Thermal Imaging camera	21	Mr. Prahalad Raval	Laboratory Superviso	Diploma in Civil Engir
5	Strength of Material	18	Universal Testing Machine (40 T capacity), Rockwell / Brinell Hardness Testing Machine, Vickers Hardness Testing Machine, Impact	34	Mr. Satyaprakash Cha	Laboratory Assistant	B E in Civil Engineeri
6	Structural Mechanics	18	Frame for Measurement of Beam Deflection, Bending Moment and Shear Force Apparatus, Pin Joint Truss Apparatus, Column & Strut Apparatus	11	Mr. Sunil Regar	Laboratory Assistant	B E in Civil Engineeri
7	Transportation Engineering	18	Ring and Ball Apparatus, Los Angeles Abrasion Testing Machine, Marshal Stability Test Apparatus, Impact Testing Machine, Ductility	17	Mr. Mahendrasinh Ra	Laboratory Assiatnt	B E in Civil Engineeri
8	Computer Center-1	18	Computer Intel Core i3 3210 CPU 3.2GHZ, 4 GB, 500 GB Hard Drive (29 Nos), Intel Core i5- 1 Nos.	26	Mr. Kaushal Darji	Laboratory Assistant	Diploma in Computer
9	Engineering Mechanics	18	Universal Force Table, Coplanar Non-Concurrent Force Apparatus, Support Reaction of Beam Apparatus, Plane Truss Apparatus, Combined	22	Mr. Satyaprakash Cha	Laboratory Assistant	B E in Civil Engineeri
10	Environmental Engineering	18	Digital Conductivity Meter, Digital TDS Meter, Distillation Apparatus, Microcontroller-based Colony Counter, Membrane Vacuum Filtration	20	Mrs. Dhara K. Joshi	Senior Laboratory As	M.Sc. Microbiology
11	Project Laboratory	18	Display Board of Types of Bends and Ties, Display Board of Types of wood and plywood used in building construction, Display Board of	11	Mrs. Dhara K. Joshi	Senior Laboratory As	M.Sc. Microbiology
12	Structural Engineering Research Centre	18	EOT Crane - 5T capacity, Gantry Crane 5T, Loading Frame (1000 kN capacity), Torsion Frame (250 kN capacity), Strong Floor (6 m x 24 m), A	30	Mr. Sunil Regar	Laboratory Assistant	B E in Civil Engineeri
13	Concrete Technology	18	Digital Compression Testing Machine, Flexural Testing Machine, Drum type Concrete Mixture (1/2 bag capacity and 1 bag capacity), Pan Type	-	Mr. Prahalad Raval	Laboratory Superviso	Diploma in Civil Engir
14	Computer Center-2	18	Computer Intel Core i3 3210 CPU 3.2GHZ, 4 GB, 500 GB Hard Drive (28 Nos), Intel Core i5- 1 Nos.	20	Mr. Sunil Regar	Laboratory Assistant	B E in Civil Engineeri
15	Fluid Mechanics * (* shared with Mechanical Engineering Department)	18	Redwood Viscometer, Piezometer, Manometer, Orifice Meter, Venturi Meter. Pipe Network comprising GI and PVC Pipes and Plumbing	16	Mr Sanjay Trivedi	Laboratory Assistant	Diploma in Mechanica

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures

1	Geotechnical Engineering	Functional fire extinguisher installed and maintained regularly. Emergency first aid kit available PPE such as gloves, and helmets used as applicable in field tests. Safety charts and emergency information displayed at visible points.
2	Water Resources and Hydraulic Engineering	Functional fire extinguisher installed and inspected regularly. Emergency first aid kit available Safety charts, lab rules, and emergency contact details displayed clearly.
3	Construction Material Laboratory	Functional fire extinguisher installed and inspected regularly. Emergency first aid kit available PPE (helmets, safety shoes, gloves, goggles) mandatory due to handling of aggregates, concrete, mixers, and heavy equipment. Safety charts and emergency instructions displayed clearly. Equipment such as planetary mixers, rheometer, and ball mill arranged with sufficient clearance to avoid accidental contact. Chemicals, additives, and cementitious materials stored in ventilated, clearly labeled areas to prevent exposure.
4	Surveying	Functional fire extinguisher installed and inspected regularly. Emergency first aid kit available PPE such as helmets and reflective jackets used when handling outdoor surveying instruments. Safety charts, laboratory rules, and emergency contact details displayed at appropriate locations. Instruments such as Total Stations, GPS units, and Theodolites are arranged systematically with clear movement space to prevent accidental damage or tripping hazards.
5	Strength of Material	Functional fire extinguisher installed and inspected periodically. Emergency first aid kit available Safety charts, operating instructions, and emergency contacts displayed prominently. All machines arranged with adequate spacing; moving components of UTM, impact testers, and rotating parts guarded to prevent accidental contact. Stable foundations provided for heavy equipment like UTM and fatigue testing machine to avoid vibration-related hazards.
6	Structural Mechanics	Functional fire extinguisher available and regularly inspected. Emergency first aid kit available Safety charts and operating guidelines displayed clearly within the lab.
7	Transportation Engineering	Functional fire extinguisher installed and inspected routinely. Emergency first aid kit available PPE (safety jackets) required during bitumen handling, aggregate preparation, and equipment operation. Safety charts and emergency contacts displayed prominently. Bitumen-related tasks carried out with heat-resistant gloves and under proper ventilation. Ovens used for aggregate and bitumen sample heating require heat-proof gloves and caution during loading/unloading.
8	Computer Center-1 & 2	Functional fire extinguisher installed and checked periodically. Safety charts and emergency contact details displayed at the entrance. Electrical outlets, power sockets, and cables maintained in good condition to prevent short circuits or tripping hazards. Workstations arranged with adequate spacing to allow safe movement and avoid congestion. Air-conditioning and ventilation maintained to prevent overheating of computer systems.
9	Engineering Mechanics	Functional fire extinguisher installed and inspected regularly. Emergency first aid kit available Safety charts with lab rules and emergency procedures displayed prominently.

10	Environmental Engineering	Functional fire extinguisher installed and checked regularly. Emergency first aid kit available PPE (gloves, lab coats, masks) mandatory for all wet-lab and chemical-handling tasks. Safety charts, emergency contacts, and chemical-handling guidelines displayed clearly. Equipment arranged with sufficient working space; wet and dry sections kept separated to avoid cross-contamination. All chemicals stored in labeled, ventilated storage areas with proper containment. Dedicated waste-disposal area for tested samples, sludge, filters, and other lab scrap. Hazardous chemical waste stored in sealed, labeled dark containers and handed over to an authorized waste-management agency as per CPCB guidelines.
11	Project Laboratory	Functional fire extinguisher installed and inspected periodically.
12	Concrete Technology & Structural Engineering Research Centre (SERC)	Functional fire extinguishers installed and regularly checked. Emergency first aid kit available PPE (helmets, gloves, safety shoes, protective eyewear) worn during experiments and testing. Safety charts and emergency procedures prominently displayed. Equipment arranged systematically with sufficient working space to avoid accidents. Heavy machinery installed on stable foundations; vibration-free operation ensured. Designated disposal area for tested specimens, waste materials, and scrap, following institutional guidelines.
13	Fluid Mechanics	Functional fire extinguishers installed and regularly checked. Emergency first aid kit available Safety charts and emergency procedures displayed at multiple locations.

D3. Project Laboratory/Research Laboratory

Sr. No.	Name of the Laboratory
1	Center for Research in Geotechnical Textile

Nirma University was established with an aim to shape a better future for mankind by developing effective and socially responsible individuals and organization. The Department of Civil Engineering at Nirma University has achieved a milestone by securing a grant of Rs. 4.22 crores from the National Technical Textiles Mission (NTTM), a Government of India initiative. Of the total amount, a Rs. 3.92 crore has been earmarked for the establishment of "Centre for Research in Geotechnical Textiles". A sum of Rs. 30 lakhs has been allocated to support training of faculty and staff members of the department. Establishing a Centre for Research in Geotechnical Textile is a step forward to firmly achieve this aim of the University towards the research and development.

The textiles used for the purpose of introducing or enhancing the engineering properties/ technical parameters of a material is called Technical Textiles. The technical textile used to enhance the engineering properties of soil is called Geotechnical Textiles or Geotextiles. The engineering properties include physical, mechanical, hydraulic, endurance and degradation properties. Geotextiles not only include tensile strength (reinforcement) in the soils but also have various functions including Fluid barrier, Separation, Filtration, Drainage and Protection & Erosion control.

The centre aims to provide the facilities for cutting edge research and development in the domain of geotextiles. It will facilitate academicians, research scholars, post-graduate students, under-graduate students and Civil Engineering professionals to enhance their skills and knowledge in the field of geotechnical application and ground improvement through geotextile materials. The centre would be a focal point of collaboration with academia, research organizations and industries to develop new products and techniques which will bring innovative solutions for addressing the present problems and find sustainable alternatives to scarce natural resources for sustainable infrastructure development of the nation.

Following areas of research have been identified for the centre:

- Soil Stabilization: Enhancing soil strength and stability.
- Drainage Systems: Efficient water management in geotechnical applications.
- Pavement material and execution methodology for different types of roads.
- Railway sub-ballast/ sub- structure strengthening using geo-textiles
- Landslide prevention: slope protection using geo-textiles including jute/coir/natural fiber
- Water infrastructure – Erosion Control: Preventing soil erosion due to natural forces
- Reinforcement: Strengthening soil and structures.
- Environmental Protection: Applications in landfill liners and waste containment.
- Coastal Engineering: Coastal protection and marine infrastructure.
- Sustainability: Eco-friendly and recyclable geotextile materials.
- Seismic Mitigation: Earthquake-resistant construction techniques.
- Innovative Applications: Exploring new uses for geotechnical textiles.
- Standards and Guidelines: Ensuring industry best practices and quality control.

Centre will be offering specialized testing & consultancy services to ensure quality, durability and suitability of geotextiles for specific engineering applications.

- Mass per Unit Area Test
- Thickness Test
- Stiffness Test
- Grab Strength Test
- Trapezoid Tear Test
- Puncture Resistance Test
- CBR Puncture Test
- Bursting Strength test
- Cone drop test
- Interface Shear Strength Test

	● Pull-out Strength Test ● Permittivity Test ● Transmissivity Test ● UV Degradation Test ● Creep Test ● Gradient Ratio Test ● Long Term Flow Test ● Analysis and Design of Geosynthetic Reinforced Geotechnical Structures
2	Structural Engineering Research Center

Nirma University aims to serve society through knowledge and resources. Adhering to the set aim, the Civil Engineering Department, established the Structural Engineering Research Centre (SERC) in 2019. It aims to provide application-centric solutions that benefit society. Major emphasis is laid on conducting an experimental investigation on structural elements and/or structural systems composed of Reinforced Concrete (RC), Steel, Composite, and Masonry materials, adhering to Indian Standards, ASTM Standards, etc. SERC cater to the diversified need of structural engineering that includes small &; full scale testing of structural elements/ systems under monotonic gravity and/or lateral loading through loading frames and strong floor; dynamic response studies of half-scale structures through unique shock table facility; torsional response study of structural element through unique torsional testing facility; system identification for small scale linear system using harmonic shake tables; durability studies of hardened concrete specimens through various durability testing equipment; fire effects on concrete elements with fire furnace and testing of cementitious materials through various testing instruments. Various consultancy and testing assignments have been carried out, which were of societal importance, and this trend will continue.

Laboratory Resources

SERC comprises three specialized domains: (i) Experimental Structural Mechanics; and (ii) Cement and Concrete Testing; (iii) Structural Dynamics and Earthquake Engineering.

(i) Experimental Structural Mechanics

This domain utilizes Strong Floor facilities, Loading Frames, and Universal Testing Machines to conduct experimental investigations on the behavior of structural elements/systems under axial, flexural, shear, and torsional loading. Such investigations are carried out with RC, Steel, Composite, Masonry, and fiber-reinforced composite materials, among others. Various professional assignments and material testing have been carried out using the equipment and facilities listed. Research activities are also routinely conducted. Experimental investigations carried out under the said domain include;

- Behavior of RC, Steel, Composite, Masonry, and Fiber Reinforced Composite structural elements/systems under axial, flexural, shear, and torsional loading
- Reinforcement testing conforming to IS:1608
- Bricks testing (Red clay, AAC block, Fly Ash, CSEB block) conforming to IS:3495
- Health monitoring of various types of structural elements and/or structures

(ii) Cement and Concrete Testing

The design of concrete mixtures and in-situ strength evaluation of concrete structures are common requirements in the professional field. The domain of Cement and Concrete Testing aims to carry out concrete mix design, durability, and NDT testing of various structures. SERC is equipped with the required conventional &; advanced equipment catering to the above objective. It also houses a gas-fired furnace facility to study the effect of fire on various structural elements. Fundamental and applied research activities have been conducted in this domain to develop various types of concrete and its applications. Professional consultancy assignments and testing related to cement and concrete are routinely conducted.

Various investigations carried out under the domain of cement and concrete testing include;

- Mixture design for different types of concrete
- Evaluation of the mechanical properties of concrete and advance concrete materials.
- Physical and Chemical durability assessment of RC, Steel, and Masonry structures
- Non-destructive evaluation of various structural elements and/or structures
- Repair and rehabilitation of RC, Steel, and Masonry structural elements and/or structures

(iii) Structural Dynamics and Earthquake Engineering

Equipment and facilities in this domain are used for system identification of discrete linear structural models and the dynamic response of half-scale stone masonry, brick masonry, RC, Steel, Composite, and Pre-fabricated structures. The major thrust is to study the behaviour of scaled RC, Steel, Composite, Masonry, and Pre-fabricated structural elements/systems under monotonic lateral loading using the Strong Floor Facility. SERC houses a unique Shock Table facility, one of its own kind, to simulate the seismic response of various types of structures. Equipment and facilities have been utilized for conducting various consultancy and testing assignments in conjunction with research activities. Experimental investigations carried out under the said domain include;

• System identification of discrete linear structural models.
• Dynamic response of half-scale Stone masonry, Brick masonry (Red clay, AAC block, Fly ash, CSEB block, etc.), RC, Steel, Composite, and Pre-fabricated structural models.
• Seismic behavior of scaled RC, Steel, Composite, Pre-fabricated, and Masonry structural elements/systems under monotonic lateral loading.

Consultancy Services

SERC offers consultancy services in the following areas of Structural Engineering

• Proof checking for structural design
• Finite element analysis of structures
• Numerical simulations of structural elements/systems under a variety of loading conditions and their combinations
• Seismic analysis and design of structures
• Non-destructive evaluation of structures
• Damage assessment of fire-affected buildings
• Repair and retrofitting of concrete structures
• Structural health monitoring of structures

Testing Services

Testing has been an integral and ever-growing activity at SERC, which includes;

• Cement & admixtures
• Proportioning of concrete
• Distress evaluation study
• Non-destructive testing
• Quality assurance and control
• Evaluation of mechanical properties of reinforcing steel, metal, wood, bricks, tiles, etc. under tension, compression, shear &; hardness tests, transverse loading, bend &; re-bend, weight &; dimension test, bond &; adhesive properties
• Masonry unit &; prism testing
• Buckling and transverse strength of pultruded FRP sections
• Customised testing of materials/structural elements as per the client’s specifications

Industry Linkages

Memorandum of Understanding (MoU)

The Department of Civil Engineering has executed MoUs with the Dr. FIXIT Institute for Structural Protection and Rehabilitation of Structures. MoU has also been signed with

CSIR–CBRI, CSIR–AMPRI, SAC-ISRO, and ATIRA to promote collaborative research for faculty members and students.

The following is an indicative list of our valued professional organizations with whom SERC has collaborated in the past.
• Oil and Natural Gas Corporation
• Gujarat Industrial Development Corporation
• Gujarat Water Supply &; Sewerage Supply Board
• Roads and Building Department (Gujarat Circle)
• Sardar Sarovar Narmada Nigam Limited
• Institute for Plasma Research
• Institute of Seismological Research
• Indian Institute of Management, Ahmedabad
• Gujarat International Finance Tec-City
• Sintex Private Limited
• Larsen & Toubro India
• Linde Engineering India
• PMC Projects Private Limited
• MEGHA Engineering and Infrastructures Limited
• Reliance Gas Transportation Infrastructure Limited
• Vastushilpa Consultants
• VMS Engineering &; Design Services
• STUP Consultants
• DUCON Consultants Private Limited
• Multimedia Consulting Engineers

PART E: First Year faculty and financial Resources

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

E1. First Year Student-Faculty Ratio (FYSFR)

Table No. E1.1: FYSFR details.

Year	Sanctioned intake of all UG programs (S4)	No. of required faculty (RF4= S4/20)	No. of faculty members in Basic Science Courses & Humanities and Social Sciences including Management courses (NS1)	No. of faculty members in Engineering Science Courses (NS2)	Percentage= No. of faculty members ((NS1*0.8) +(NS2*0.2))/(No. of required faculty (RF4)); Percentage=((NS1*0.8) +(NS2*0.2))/RF
2023-24(CAYm2)	960	48	37	29	74
2024-25(CAYm1)	1020	51	41	29	76
2025-26(CAY)	1020	51	45	29	82

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

Table No. E2.1: Budget and actual expenditure incurred at Institute level.

Items	Budgeted in 2024-2025	Actual Expenses in 2024-2025 till	Budgeted in 2023-2024	Actual Expenses in 2023-2024 till	Budgeted in 2022-2023	Actual Expenses in 2022-2023 till	Budgeted in 2021-2022	Actual Expenses in 2021-2022 till

Infrastructure Built-Up	23790000	7130691	94141895	21910646	34007425	14509388	161883377	6443377
Library	32135000	19914730	31535000	17803157	29362000	21799291	26262000	19320000
Laboratory equipment	50747000	8934417	51755000	12810805	44683000	18016465	32851000	21682000
Teaching and non-teaching staff salary	937553000	315571583	818553000	711167765	789433000	668591341	708067000	572462000
Outreach Programs	1200000	26400	1305000	1083296	1117000	1063648	883379	695794
R&D	60102000	9242566	46335000	62749165	46434000	63873869	49319000	37780032
Training, Placement and Industry linkage	22523000	420619	20922000	15802569	18931000	15741323	13706000	13997813
SDGs	6380000	1402461	9506263	5130800	7036951	4976179	5841659	6330702
Entrepreneurship	200000	0	1375000	35235	1730000	80718	970000	218812
Others, (* Others include : Maintenance and Spares,	886543000	275640641	930509842	651916513	904089624	662821579	731376585	640158934
Total	**2021173000**	**638284108**	**2005938000**	**1500409951**	**1876824000**	**1471473801**	**1731160000**	**1319089464**

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

Table No. E3.1: Budget and actual expenditure incurred at program level.

Items	**Budgeted in 2024-2025**	**Actual Expenses in 2024-2025 till**	**Budgeted in 2023-2024**	**Actual Expenses in 2023-2024 till**	**Budgeted in 2022-2023**	**Actual Expenses in 2022-2023 till**	**Budgeted in 2021-2022**	**Actual Expenses in 2021-2022 till**
Laboratory equipment	2190000	80782	2675000	1762531	5192293	5110238	4980000	4922705
Software	1500000	5600	300000	272967	1300000	872467	608000	272683
SDGs	481877	105927	754405	407174	535994	379028	476379	516260
Support for faculty development	629000	151784	609000	250741	562000	333048	321607	229093
R & D	400000	88695	450000	438620	350000	331392	340000	250884

Industrial Training, Industry expert, Internship	375000	6036	350000	137152	300000	242799	250000	164780
Miscellaneous Expenses*	100000	8013	45000	34141	60000	34657	55000	54961
Total	**5675877**	**446837**	**5183405**	**3303326**	**8300287**	**7303629**	**7030986**	**6411366**