

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 : 10611	Date of Submission : 21-05-2025

PART A- Profile of the Institute

A1.Name of the Institute : National Institute of Technology, Raipur	
Year of Establishment : 2005	Location of the Institute: Raipur
A2. Institute Address :Dr. M. K. Verma C/o Dr. Sudarshan Tiwari Director, National Institute of Technology Raipur G E Road, Raipur (C.G.)	
City:Raipur	State:Chhattisgarh
Pin Code:492010	Website:www.nitr.ac.in
Email:mkv.civil@nitr.ac.in	Phone No(with STD Code):0771-2255030
A3. Name and Address of the Affiliating University (if any):	
Name of the University :	City:
State : Chandigarh	Pin Code: 492010
A4. Type of the Institution : NIT	
A5. Ownership Status : Central Government	

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

- No. of UG programs: **12**
- 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	Architecture	UG	Architecture	1984	--	Architecture
2	Architecture	PG	Urban Planning	2024	--	Architecture
3	Computer Application	PG	Master in Computer Applications	1986	--	Computer Application
4	Engineering & Technology	PG	Applied Geology	1961	--	Applied Geology
5	Engineering & Technology	UG	Biomedical Engineering	2003	--	Biomedical Engineering
6	Engineering & Technology	UG	Biotechnology	2003	--	Biotechnology
7	Engineering & Technology	UG	Chemical Engineering	1962	--	Chemical Engineering
8	Engineering & Technology	UG	Civil Engineering	1958	--	Civil Engineering
9	Engineering & Technology	UG	Computer Science and Engineering	2000	--	Computer Science and Engineering
10	Engineering & Technology	UG	Electrical Engineering	1958	--	Electrical Engineering

11	Engineering & Technology	UG	Electronics & Communication Engineering	1985	--	Electronics and Communication Engineering
12	Engineering & Technology	PG	Energy and Environmental Engineering	2021	--	Chemical Engineering
13	Engineering & Technology	PG	Industrial Engineering and Management	2016	--	Mechanical Engineering
14	Engineering & Technology	UG	Information Technology	2000	--	Information Technology
15	Engineering & Technology	PG	Information Technology	2015	--	Information Technology
16	Engineering & Technology	PG	Machine Design	2016	--	Mechanical Engineering
17	Engineering & Technology	UG	Mechanical Engineering	1958	--	Mechanical Engineering
18	Engineering & Technology	UG	Metallurgical & Materials Engineering	1956	--	Metallurgical and Materials Engineering
19	Engineering & Technology	UG	Mining Engineering	1956	--	Mining Engineering
20	Engineering & Technology	PG	Power System & Control	2014	--	Electrical Engineering
21	Engineering & Technology	PG	Structural Engineering	2014	--	Civil Engineering
22	Engineering & Technology	PG	Thermal Engineering	2010	--	Mechanical Engineering
23	Engineering & Technology	PG	VLSI & Embedded Systems	2017	--	Electronics and Communication Engineering
24	Engineering & Technology	PG	Water Resources Development and Irrigation Engineering	1986	--	Civil Engineering

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

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

Name of the Department	Having Allied Departments	Name of the Program	Program Level
Electronics and Communication Engineering	No	Electronics & Communication 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 APPROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROGRAM DURATION
1	Civil Engineering	UG	1958 / --	48	Yes	2019	97	2019	NOT APPLICABLE	Granted accreditation for 3 years for the period (specify period)	2022	2025	2	4

Sanctioned Intake for Last Five Years for the Structural Engineering	
Academic Year	Sanctioned Intake
2024-25	97
2023-24	97
2022-23	97
2021-22	97
2020-21	97
2019-20	78

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 :	Prof Shirish V. Deo
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)	2024-25 (CAY)	2023-24 (CAYm1)	2022-23 (CAYm2)	2021-22 (CAYm3)	2020-21 (CAYm4)	2019-20 (CAYm5)	2018-19 (CAYm6)
N=Sanctioned intake of the program (as per AICTE /Competent authority)	97	97	97	97	97	88	84
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	92	91	96	96	91	85	80
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	0	0	0	0	0	0
N3=Separate division if any	0	0	0	0	0	0	0
N4=Total no. of students admitted in the 1st year via all supernumerary quotas	0	0	0	0	0	0	0

Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	92	91	96	96	91	85	80
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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]
2024-25 (CAY)	97	92	0	94.85
2023-24 (CAYm1)	97	91	0	93.81
2022-23 (CAYm2)	97	96	0	98.97

Average [(ER1 + ER2 + ER3) / 3] = 95.88≅ 20.00

B5. Success Rate of the Students in the Stipulated Period of the Program

Table No.B5.1: The success rate in the stipulated period of a program.

Item	(2020-21) LYG	(2019-20) LYGm1	(2018-19) 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).	97.00	88.00	84.00
B=No. of students who graduated from the program in the stipulated course duration	86.00	86.00	82.00
Success Rate (SR)= (B/A) * 100	88.66	97.73	97.62

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 94.67

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(2023-24)	CAYm2(2022-23)	CAYm3 (2021-22)
Mean of CGPA or mean percentage of all successful students(X)	7.84	7.30	8.20
Y=Total no. of successful students	87.00	80.00	88.00
Z=Total no. of students appeared in the examination	91.00	95.00	96.00
API [X*(Y/Z)]	7.50	6.15	7.52

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

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

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

Academic Performance	CAYm1 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-22)
X=(Mean of 2nd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2nd year/10)	7.96	7.91	8.30
Y=Total no. of successful students	75.00	90.00	91.00
Z=Total no. of students appeared in the examination	80.00	88.00	88.00
API [X * (Y/Z)]	7.46	8.09	8.58

Average API [(AP1 + AP2 + AP3)/3] : 8.04

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 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-22)
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)	7.82	8.10	8.11
Y=Total no. of successful students	90.00	86.00	87.00
Z=Total no. of students appeared in the examination	90.00	91.00	87.00
API [$X*(Y/Z)$]:	7.82	7.65	8.11

Average API [(AP1 + AP2 + AP3)/3] : 7.86

B9. Placement, Higher Studies, and Entrepreneurship

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

Item	LYG (2020-21)	LYGm1(2019-20)	LYGm2(2018-19)
FS*=Total no. of final year students	97.00	88.00	84.00
X=No. of students placed	48.00	61.00	50.00
Y=No. of students admitted to higher studies	2.00	6.00	4.00
Z= No. of students taking up entrepreneurship	2.00	0.00	1.00
Placement Index(P) = $((X + Y + Z)/FS) * 100$:	53.61	76.14	65.48

Average Placement Index = (P_1 + P_2 + P_3)/3: 65.08 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	Prof. R. K. Tripathi	XXXXXXXX99D	Ph.D	S. G. S. I. T. S. Indore (Devi Ahilya Vishwa Vidhyalaya Indore)	Structural Engineering, Non-linear Analysis, Finite Element Analysis, Earthquake Engineering, Soil-	18/07/1989	35.9	Lecturer	Professor	11/03/2013	Regular	Yes		No

2	Prof. M. K. Verma	XXXXXXXX31B	Ph.D	DAVV Indore	Water Resources and Irrigation Engineering / Fluid Mechanics, Hydrology, Bioinformatics, System/Comp	28/01/1994	31.3	Lecturer	Professor	01/01/2002	Regular	Yes		No
3	Prof. G. D. Ramtekkar	XXXXXXXX31J	Ph.D	IIT Bombay	Structural Engineering	04/01/1991	34.3	Lecturer	Professor	10/04/2013	Regular	Yes		No
4	Prof. U. K. Dewangan	XXXXXXXX92G	Ph.D	IIT Kharagpur	Structural Engineering	14/08/1990	34.8	Lecturer	Professor	10/04/2013	Regular	Yes		No
5	Prof. Samir Bajpai	XXXXXXXX65K	Ph.D	Pt. Ravishankar Shukla University	Environmental Engineering	05/10/1990	34.6	Lecturer	Professor	10/04/2013	Regular	Yes		
6	Prof. L. K. Yadu	XXXXXXXX03H	Ph.D	NIT Raipur	Geotechnical Engineering	05/03/2009	16.1	Assistant Professor	Professor	21/11/2023	Regular	Yes		
7	Dr. A. V. Ahirwar	XXXXXXXX00A	Ph.D	NIT Raipur	Environmental Engg	12/02/2009	16.2	Assistant Professor	Associate Professor	22/10/2022	Regular	Yes		
8	Dr. Sandeep Kumar Chouksey	XXXXXXXX32K	Ph.D	IISC Bangalore	Geotechnical Engineering	08/05/2015	9.11	Assistant Professor	Assistant Professor		Regular	Yes		
9	Dr.. Meena Murmu	XXXXXXXX99A	Ph.D	NIT Rourkela	Structural Engineering	13/05/2013	11.11	Assistant Professor	Assistant Professor		Regular	Yes		
10	Dr. A. D. Prasad	XXXXXXXX79N	Ph.D	IIT Roorkee	Geomatics Engineering	02/06/2015	9.10	Assistant Professor	Assistant Professor		Regular	Yes		
11	Dr.. Mohit Jaiswal	XXXXXXXX48M	Ph.D	NIT Raipur	Structural Engineering	10/05/2013	11.11	Assistant Professor	Assistant Professor		Regular	Yes		
12	Dr.. Vikas Kumar Vidyarthi	XXXXXXXX54P	Ph.D	IIT Kanpur	Hydraulics and Water Resources Engineering	23/07/2021	3.9	Assistant Professor	Assistant Professor		Regular	Yes		
13	Dr. Govardhan Bhatt	XXXXXXXX49G	Ph.D	IIT Roorkee	Structural Engineering	13/06/2013	11.10	Assistant Professor	Assistant Professor		Regular	Yes		
14	Dr. Ishtiyah Ahmad	XXXXXXXX48H	Ph.D	NIT Raipur	Water Resources	01/05/2013	11.11	Assistant Professor	Assistant Professor		Regular	Yes		
15	Dr. Chandan Kumar Singh	XXXXXXXX37B	Ph.D	VNIT Nagpur	Water Resources	04/08/2021	3.8	Assistant Professor	Assistant Professor		Regular	Yes		
16	Dr. Manikant Verma	XXXXXXXX72E	Ph.D	NIT Raipur	Water Resources & Environmental Engg.	06/05/2013	11.11	Assistant Professor	Assistant Professor		Regular	Yes		
17	Dr. Alfia Bano	XXXXXXXX49F	Ph.D	IIT Kanpur	Structural Engineering	07/07/2015	9.9	Assistant Professor	Assistant Professor		Regular	Yes		

18	Dr. Sunny Deol G.	XXXXXXXX04J	Ph.D	NIT Surat	Transportation Engineering	12/07/2013	11.9	Assistant Professor	Assistant Professor		Regular	Yes		
19	Dr. Supriya Pal	XXXXXXXX07J	Ph.D	Delhi Technical University	Structural Engineering	12/08/2022	2.8	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
20	Dr. Subhashree Jena	XXXXXXXX67G	Ph.D	NIT Rourkela	Transportation Engineering	14/08/2023	1.8	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		
21	Dr. Aparna Sharma	XXXXXXXX81E	Ph.D	IIT Delhi	Environmental Engineering	21/08/2023	1.8	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		
22	Dr. Sukanta Das	XXXXXXXX82W	Ph.D	IIT Roorkee	Geotechnical Engineering	14/08/2023	1.1	Assistant Professor	Assistant Professor		Contractual Fulltime	No	07/10/2024	
23	Dr. Ansu Thomas	XXXXXXXX41E	Ph.D	NIT Raipur	Geotechnical Engineering	28/08/2013	10.11	Assistant Professor	Assistant Professor		Regular	No	31/07/2024	
24	Dr. Vinit Rajesh Lambey	XXXXXXXX01R	Ph.D	NIT Raipur	Geomatics Engineering	19/08/2024	0.8	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		
25	Dr. RAJIV KUMAR GIRI	XXXXXXXX54P	Ph.D	University of Illinois Chicago	Geotechnical Engineering	08/08/2022	0.10	Assistant Professor	Assistant Professor		Contractual Fulltime	No	30/06/2023	No
26	Prof Shirish V. Deo	XXXXXXXX38Q	Ph.D	VNIT Nagpur	Structural Engineering	03/03/2009	16.2	Assistant Professor	Professor	21/11/2023	Regular	Yes		Yes

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(2024-25)	CAYm1 (2023-24)	CAYm2 (2022-23)
UG1.B	97	97	97

Description	CAY(2024-25)	CAYm1 (2023-24)	CAYm2 (2022-23)
UG1.C	97	97	97
UG1.D	97	97	78
UG1: Civil Engineering	291	291	272
PG1.A	14	14	14
PG1.B	14	14	14
PG1: Structural Engineering	28	28	28
PG2.A	13	13	13
PG2.B	13	13	13
PG2: Water Resources Development and Irrigation Engineering	26	26	26
DS=Total no. of students in all UG and PG programs in the Department	345	345	326
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= 345	S2= 345	S3= 326
DF=Total no. of faculty members in the Department	23	24	22
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= 23	F2= 24	F3= 22
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= 15.00	SFR2= 14.38	SFR3= 14.82
Average SFR for 3 years	SFR= 14.73		

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]]
2024-25(CAY)	23	0	17.00	33.82
2023-24(CAYm1)	24	0	17.00	35.29
2022-23(CAYm2)	22	0	16.00	34.38

C4. Faculty Cadre Proportion

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

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

Year	Professors		Associate Professors		Assistant Professors	
	Required RF1	Available AF1	Required RF2	Available AF1	Required RF3	Available AF3
2024-25	1.00	7.00	3.00	1.00	11.00	11.00
2023-24	1.00	5.00	3.00	3.00	11.00	12.00
2022-23	1.00	5.00	3.00	2.00	10.00	13.00
Average	RF1=1.00	AF1=5.67	RF2=3.00	AF2=2.00	RF2=10.67	AF2=12.00

C5. Visiting/Adjunct Faculty/Professor of Practice

Table No. C5.1: List of visiting/adjunct faculty/professor of practice and their teaching and practical loads.

(CAYm1)

(CAYm2)

(CAYm3)

C6. Academic Research

Table No. C6.1: Faculty publication details.

S.No.	Item	2023-24 (CAYm1)	2022-23 (CAYm2)	2021-22 (CAYm3)
1	No. of peer reviewed journal papers published	67	63	47
2	No. of peer reviewed conference papers published	33	41	33
3	No. of books/book chapters published	16	16	17

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. Govardhan Bhatt		Department of Computer science Engineering, Department of Civil Engineering	V-App: A Dedicated Mobile/Web Application for UNICEF Volunteers	UNICEF Office for Chhattisgarh	12 months	3.75
Dr. Govardhan Bhatt		Department of Civil Engineering	Developing a sustainable strategy for programme monitoring, institutional strengthening, and capacity building for climate resilient and energy-efficient initiatives in rural areas of Chhattisgarh state	UNICEF Office for Chhattisgarh	12 months	53.47
Dr. Govardhan Bhatt		Department of Civil Engineering	Development of sustainable infrastructure to support sanitation and ODF programming including operational and maintenance infrastructure for water supply system in Niyad Nilenar villages of Chhattisgarh state	UNICEF Office for Chhattisgarh	12 months	33.27
Dr. Govardhan Bhatt		Department of Civil Engineering	Remote Sensing and GIS Mapping for the development of Sirpur heritage site	SADA Sirpur Chhattisgarh	36 months	58.20
Dr. Govardhan Bhatt		Department of Civil Engineering	Technical Assistance to State Governments for O&M of Climate-Resilient Safely Managed Water Supply in Chhattisgarh	UNICEF Office for Chhattisgarh	12 months	32.40
Dr. Govardhan Bhatt		Department of Civil Engineering	Perception Based Pradhan Mantri Awas Yojna for PVTGs in Tribal Region of Chhattisgarh Project	PMAY-G	12 months	2.18
Dr. Sandeep Kumar Chouksey	Co-PI	Research & Development in Water Sector and Implementation of National Water Mission	Investigating the Linkages among Land Subsidence, Hydrological, Anthropogenic and Other Contributing Factors in Joshimath	Research & Development in Water Sector and Implementation of National Water Mission	36 month	57.76
Dr. Sunny Deol G.	Dr. S.V. Deo	Department of Civil Engineering	Suitability and life cycle assessment of Steel Slag in manufacturing geopolymers and cement concrete for interlocking eco friendly paver blocks	Bhilai steel plant	16 weeks	6.52
Dr. Sunny Deol G.		Department of Civil Engineering	Performance Evaluation of the roads constructed using terrazyme in the state of chhattisgarh under PMGSY	National rural infrastructure development agency	18 months	19.14
Dr. Chandan Kumar Singh		Department of Civil Engineering	Investigating the Linkages Among Land Subsidence, Hydrological, Anthropogenic and Other Contributing Factors in Joshimath	INCGW, Ministry of Jal Shakti, India	18 months	16.00
Dr. Laxmikant Yadu		Department of Civil Engineering	Performance Evaluation of the roads constructed using TerraZyme in the State of Chhattisgarh under PMGSY	National Rural Infrastructure Development Agency Ministry of Rural Development Government of India	18 months	18.14
Dr. Samir Bajpai		Department of Civil Engineering	Studies on Condition Assessment & Management Plan for Mahanadi River Basin, Chhattisgarh	NRCD, Department of Water Resources, River Development & Ganga Rejuvenation, Ministry of Jal Shakti, Govt. of India	ongoing	252.00

Dr. Samir Bajpai		Department of Civil Engineering	Evaluation of pollution potential (microplastics and some heavy metals) of municipal solid waste dumping sites, contaminant transport mechanisms, and effects on aquatic (surface water and groundwater) sources of Raipur city	Chhattisgarh Council of Science & Technology	ongoing	5.00
Dr Alfia Bano	Co-PI	Department of Civil Engineering	Restoration of 60 years old Adarsh Bazar Building	Raipur Development Authority, Chhattisgarh	ongoing	149.00
Prof. Ishtiyag Ahmed		Department of Civil Engineering	Developing a sustainable strategy for programme monitoring, institutional strengthening, and capacity building for climate resilient and energy-efficient initiatives in rural areas of Chhattisgarh state	UNICEF Office for Chhattisgarh	12 months	53.47
Prof. Ishtiyag Ahmed		Department of Civil Engineering	Development of sustainable infrastructure to support sanitation and ODF programming including operational and maintenance infrastructure for water supply system in Niyad Nilenar villages of Chhattisgarh state	UNICEF Office for Chhattisgarh	12 months	33.27
Dr. Chandan Kumar Singh		Department of Civil Engineering	Climate-driven impacts on groundwater storage and adaptation measures in the state of Chhattisgarh, India	Ministry of Jal Shakti, India	1	19.00
						Amount received (Rs.):812.57

(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
Dr. Govardhan Bhatt		Department of Civil Engineering	Development of Low-Cost Demonstration Shake Table for Bihar State Disaster Management Authority	Bihar State Disaster Management Authority	24 months	2.55
Dr. Chandan Kumar Singh		Department of Civil Engineering	Modelling Identification of Groundwater Potential Zone and recharge Sites in the village area of Leh District Ladakh	Leh Nutrition Project, NGO	12 months	1.54
Prof. Ishtiyag Ahmed		Department of Civil Engineering	To prepared the state specific action plan for water sector with respect to the climate change for the chhattisgarh state	National nodal agency for the project , the north eastern regional institute of water and land managemnt tezpur Assam	24 months	30.00
						Amount received (Rs.):34.09

(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
Dr. Govardhan Bhatt		Department of Civil Engineering	Reduction of carbon foot print with by-products utilization for different sustainable applications	Institution Engineers India	24 months	0.80
Dr. Chandan Kumar Singh		Department of Civil Engineering	Real Time Spatiotemporal Analysis of Groundwater Quality: A Decision Support System Framework for Al Buraimi Governorate, Oman	University of Buraimi, Sultanate of Oman	12 months	8.00
Dr. Samir Bajpai		Department of Civil Engineering	Climate adaptation in wetlands along Mahanadi Catchment Area in Chhattisgarh	Chhattisgarh State Centre for Climate Change	Completed	14.87
						Amount received (Rs.):23.67

Total Amount (Lacs) Received for the Past 3 Years: 870.33

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
Dr. Govardhan Bhatt	Dr. Mohit Jaiswal	Department of Civil Engineering	MIX DESIGN OF M25,M30 WITH ADMIXTURE	AHLUWALIA CONSTRUCTION GROUP, AMITY UNIVERSITY CG	2 months	5.94
Dr. Govardhan Bhatt		Department of Civil Engineering	MIX DESIGN	Five Star Construction Co. Engineers	1 month	5.94
Dr. Sandeep Kumar Chouksey		Department of Civil Engineering	SBC of soil by Plate Load Tests (PLT) and SPT	Office of an Executive Engineer CG Housing Board Division Rajnandgaon New Bus-stand, commercial complex Ranjandgaon C.G.	1 month	1.07
Dr. Samir Bajpai	Mr. Manikant Verma	Department of Civil Engineering	Vetting of Hysdraulic Design for 900 km	M/s Shri Hari Infra project Pvt. 3rd Floor Dutta Bada Near Vidya Hospiatal Shankar Nagar Raipur	1 month	1.48
Dr. Sunny Deol G.		Department of Civil Engineering	Design of Plain Jointed Cement Concrete pavement for Food Corporation of India premises Roads at Bishrampur, and Rajnandgaon in the state of Chhattisgarh	Food Corporation of India, Raipur	9 months	4.19
Dr. Sunny Deol G.		Department of Civil Engineering	Load test of existing major High level Bridge across Goriyabahar Nala at Km 299.130 on NH-63 as a part of periodic renewal and construction of new high level bridge on EPC mode at Jagdalpur, Chhattisgarh state	National Highway Division, Jagdalpur, Chhattisgarh	3.5 months	7.67
Dr. Sunny Deol G.		Department of Civil Engineering	Quality Assurance Test on concrete road works executed under Phase-I at SECL Raigarh Area	South Eastern Coal Fields Limited, Raigarh, Chhattisgarh	4 month	18.05
Dr. Mani Kant Verma		Department of Civil Engineering	Site Visit for Observing Feasibility of Supebeda Water Supply Scheme	M/s Executive Engineer, PHE, Gariyabandh, C.G.	1 month 21 days	1.53
Dr. Mani Kant Verma		Department of Civil Engineering	Vetting of Hydraulic Design of the Raw Water Rising, Clear Water Rising Main and Distribution Network (Mogra Multi Village)	M/s Shree Hari Infra Projects Pvt. Ltd., Raipur, Chhattisgarh	2 months	1.48
Dr. G. D. Ramtekkar	Dr. Rajesh Kumar Tripathi	Department of Civil Engineering	CONSULTANCY SERVICE FOR SITE INSEPECTION OF EXISTING MINOR BRIDGE	BSCPL AURANG TOLLWAYS LIMMITED 299KM ON NH-6 (53)	1 month	2.36
Dr. G. D. Ramtekkar		Department of Civil Engineering	PROOF CHECKING OF THE SOLAR PANEL MOUNTING STRUCTURE FOR SOLAR IRRIGATION PUMP UNDER PM KUSUM SCCHEME OF MNRE PROJECT	M/S BAJRANG STEEL INDUSTRIES AND MINERALS PVT, LTD , PLOT NO 26/30, INDUSTRIAL AREA , BIRGAON ROAD URLA , RAIPUR CG	3 days	2.36
Dr. G. D. Ramtekkar	Dr. Rajesh Kumar Tripathi	Department of Civil Engineering	EXPERT SERVICES FOR CONDITION ASSESMENT OF CIVIL STRUCTURE FOUNDATION RELATED TO 4X210MWHTPS, CSPGCL KORBA WEST	EXECUTIVE ENGINEER (CIVIL), CSPGCL , RAIPUR CG	4 month	7.08
Prof. Ishtiyag Ahmed		Department of Civil Engineering	quality assesment of drainage system and building works of the sites situated at ratlam (mp) and fazilka (punjab)	project manager construction and design service up Jal migam givt	1 year 3 month	6.00
Prof. Ishtiyag Ahmed		Department of Civil Engineering	feasibility report on सुपेबेडा समूह जलप्रदाय योजना हेतु विशेषतः निर्मित डायफामवाल की आपकी तकनिशी विशेषज्ञ टीम द्वारा तकनीकी जांच करणे बाबत	कार्यपालन अभियंता लोक स्वास्थ्य यांत्रिकी खंड गरियबंद छत्तीसगढ	2 months	1.30
Prof. Ishtiyag Ahmed		Department of Civil Engineering	site visit for report on कुसुमी अवर्धन जो प्रदाय अंतर्गत गलफुल्ला नदी के अपस्ट्रीम मे 2 नग rcc jackwell एव 6 मी internal diameter का rcc इंटकवेल का तकनीकी परीक्षण बाबत	executive engineer public health engineeering dept Balrampur	2 months	1.30
Dr. Shirish V. Deo		Department of Civil Engineering	REBOUND HAMMER TEST	CHIEF PROJECT MANAGER UMSL, INFRA BUILDING BHUBANESHWAR	1	2.36
Dr Laxmikant Yadu	Dr. Sandeep Kumar Chouksey	Department of Civil Engineering	GEOTECHNICAL INVESTIGATION INCLUDE PRIMARY TESTING OF COLLECTED SAMPLES FOR FIND INDEX PROPERTIES	GEOTECHNICAL INVESTIGATION OF CONSTRUCTION OF RESIDENTIAL COMPLEX (PHASE -II) AT KABIR NAGAR	1 Month	15.53

Dr Laxmikant Yadu	Dr. Sandeep Kumar Chouksey	Department of Civil Engineering	REPORT PREPARATION INCLUDES SBC AT VARIOUS DEPTH , CHECKING OF SWELLING CHARACTERISTICS AND RECOMMENDATION OF TYPE OF FOUNDATION	GEOTECHNICAL INVESTIGATION OF CONSTRUCTION OF RESIDENTIAL COMPLEX (PHASE -II) AT KABIR NAGAR	1 Month	15.53
Dr. Rajesh Kumar Tripathi	Dr. G.D. Ramtekkar	Department of Civil Engineering	EXPERT SERVICES FOR CONDITION ASSESMENT OF CIVIL STRUCTURE FOUNDATION RELATED TO 4X210MWHTPS, CSPGCL KORBA WEST	EXECUTIVE ENGINEER (CIVIL), CSPGCL, RAIPUR CG	1 Month	7.08
Dr. Rajesh Kumar Tripathi		Department of Civil Engineering	RCC STRUCTURAL DRAWING OF PROPOSED COMMUNITY HALL & COMMERCIAL COMPLEX AT RAJIV NAGAR AAWAS YAJNA PULGAON , DURG	M/S EXECUTIVE ENGINEER , CHHATTISGARH HOUSING BOARD , DIVISION - DURG , CG	1 Month	3.26
Dr. Rajesh Kumar Tripathi		Department of Civil Engineering	PROOF CHECKING OF THE CONSTRUCTION OF MULTIPURPOSE DINGING HALL ,COMMUNITY KITCHEN & COMMON TOILET FOR SEVAGARM NEAR VILLAGE KHAPRI, RAIPUR	CHIEF ENGINEER, NAVA RAIPUR ATAL NAGAR VIKAS PRADHIKARAN, PARYAVAS BHAWAN , NORTH BLOCK SECTOR 19 , NAVA RAIPUR , RAIPUR CG	1 Month	2.36
Dr. Rajesh Kumar Tripathi		Department of Civil Engineering	STRUCTURE DESIGN , DRAWING AND ANALYSIS FOR THE G+6 STRUCTURE IN PLACE OF UNIT OPERATION LAB, NIT RAIPUR	EXECUTIVE ENGINEER ,CPWD , RAIPUR ,A WING GROUND FLOOR SECTOR -24 , ATAL NAGAR RAIPUR, NAYA RAIPUR	1 Month	22.42
Dr. Rajesh Kumar Tripathi	Dr. G.D. Ramtekkar	Department of Civil Engineering	LOAD TEST NDT ON MAIN ACEDEMIC BUILDING , ARCHITECTURAL BUILDING AND GIRLS HOSTEL BUILDING RAIPUR	EXECUTIVE ENGINEER CPWD RAIPUR	1 Month	18.88
Dr. Alfia Bano		Department of Civil Engineering	M30, M25, M25, M30	M/S Kalpataru Project International c/o NMDC Iron ore Bancheli NMDB Iron Ore processing plant NMDC Bancheli Dantewada	1	4.49
Dr. Alfia Bano		Department of Civil Engineering	Mix Design M10, Tunnels:M15, Pump: M15, M15, M20, M25; M25,M35	Chhattisgarh Hydro Power Project Office Shop No: 52, Mahalaxmi cloth market, Pandri, Raipur	1	2.90
						Amount received (Rs.):162.56

(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
Dr. Govardhan Bhatt		Department of Civil Engineering	Third Party Quality Control of RBI office building at Naya Raipur	CPWD, Raipur, A-wing Ground Floor Sector 24, Atal Nagar NayaRaipur (C.G.)	15 months	30.48
Dr. Sandeep Kumar Chouksey		Department of Civil Engineering	SBC of soil by Plate Load Tests (PLT) and SPT	Executive Engineer andSenior Manage (Civil) Raipur (C.G)	1 month	3.27
Dr. Sandeep Kumar Chouksey		Department of Civil Engineering	SBC of soil by SPT and PLT and Borelog Investigations AIIMS Residential Campus Raipur (C.G)	Executive Engineer andSenior Manage (Civil)Raipur (C.G)	1 month	15.53
Dr. Mani Kant Verma		Department of Civil Engineering	Preliminary Verification of Concept Design/ Stability of Red Mud Pond Drawings and Concept Design of Plant Layout Drawings	M/s Maa Kudargarhi Alumina Refinery Pvt. Ltd. Ozone Plaza, Fafadih Chowk, Raipur-492004	0.5 month	4.13
Dr. Rajesh Kumar Tripathi	Dr. G.D. Ramtekkar	Department of Civil Engineering	CONSULTANCY CHARGE FOR THIRD PARTY QUALITY ASSURANCE DURING THE PERIOD OF CONSTRUCTION AS MENTIONED IN THE REFERENCE LETTER FOR CONSTRUCTION OF RBI OFFICE BUILDING AT NAYA RAIPUR	THE EXECUTIVE ENGINEER CPWD RAIPUR , A-WING GROUND FLOOR SECTOR -24 ATAL NAGAR RAIPUR	1 Month	30.48
						Amount received (Rs.):83.89

(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
Dr. Sunny Deol G.		Department of Civil Engineering	Post Construction study on Investigating the failures of plain jointed cement concrete pavement from BSES Chowk to Dipka Police Chowk via Shramik Chowk at Dipka Mine Area & concrete pavement from BSES Chowk to Dipka Police Chowk via Shramik Chowk"	South Eastern Coal Fields Limited, Dipka, Chhattisgarh	7 months	12.66
Dr. Sunny Deol G.		Department of Civil Engineering	Laboratory Evaluation of Soil-Aggregate Mixes treated with TerraZyme and Cement	M/s. Avijeet Agencies, Pvt. Ltd. Chennai	19 months	6.01
Dr. Mani Kant Verma		Department of Civil Engineering	Planning and Designing for Rainwater Harvesting System in the Industry	M/s Hira Power & Steel Ltd., Unit II Urla Industrial Complex Raipur (Chhattisgarh)	8 Months 23 Days	7.19
Dr. G. D. Ramtekkar	Dr. Rajesh Kumar Tripathi	Department of Civil Engineering	RCC STRUCTURAL DESIGN OF & DRAWING OF KV SCHOOL BUILDING OF CRPF BILASPUR (C.G.)	EXECUTIVE ENGINEERING , CG GHRAH NIRMAN MANDAL, SAMBHAG -KORBA	Ongoing	11.97
Dr. Ishtiyag Ahmed		Department of Civil Engineering	planning and Designing for Rainwater Harvesting System in the Industry	M/s Hira Power & Steel Ltd., Unit II Urla Industrial Complex Raipur (Chhattisgarh)	5 months	6.10
Dr. Ishtiyag Ahmed		Department of Civil Engineering	Embankment study for itoura mine, stana service for design of embankment of satna river and its efficacy and details of the flow simulation model	RCCPL private limited , AC market kolkata 700071	2 months	5.00
Dr. Ishtiyag Ahmed		Department of Civil Engineering	Design of embankment along bihar river for protection of mining area and river along with flow simulation model at bigodi limestone mine satna	RCCPL private limited 159 churchgate reclamation mumbai 400020	2 month	5.00
Dr Laxmikant Yadu		Department of Civil Engineering	Lab Evaluation of Soil	Vice President M/S Avijeet Agencies Pvt. Graoud floor Anna nagar Chennai	1month	6.02
Dr. Alfia Bano		Department of Civil Engineering	Mix- Design-M20	M/s Raipur Constructions	1	0.31
						Amount received (Rs.):60.26

Total amount (Lacs) received for the past 3 years: 306.71

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)

(CAYm2)

(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. Vikas Kumar Vidyarthi	Indoor weather forecasting of multi storied building using ground observed data	2	4.45	4.14	One research paper is under preparation.
Dr. Chandan Kumar Singh	Assessment and design of a wireless sensor network-based monitoring system	2	5.00	3.78	One patent is under preparation
			Amount received (Rs.): 9.45		

Total amount (Lacs) received for the past 3 years : 9.45

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	Survey Laboratory	4	Total station, Digital Theodolite, Digital distance meter, Digital plani meter	4	Arvind Kumar Swarnakar	Senior Technical Assistan	M.Tech.
2	Geotechnical Engineering Laboratory	3	Universal triaxial test apprt., Digital unconfined compressive strength apprt., Resilience modulus test, California test, Digital dilatometer	2	Vaibhav Sahu	Senior Technician	B.Tech.
3	Structural Laboratory	2	STAAD pro, STAAD foundation, MX road, Sewer GEM, Water GEMS, RM bridge, ANSYS, SAP 2000, ADAPT, CYPECAD, ETABS, SAFE	2	Vaibhav Sahu	Senior Technician	B.Tech.
4	Fluid Mechanics Lab	4	Venturi meter, pilot tube meter, Notch apprt., Reynold apprt. Free and forced vortex apprt., Metacentric height test	2	Naveen Kumar Lal	Technical Assistant	M.Tech.
5	Concrete Lab	4	Flexural testing machine, Compression testing machine, Impact testing machine, Abrasion testing machine, Rebound Hammer (ASTM), UTM	4	Naveen Kumar Lal	Technical Assistant	M.Tech.
6	Transportation Lab	4	Viscometer bath, Sieve shaker, Ring and ball apparatus, Penetration apprt., Marshal stability apprt., CBR test, California bearing capacity test, Flash and fire test	2	Arvind Kumar Swarnakar	Senior Technical Assistan	M.Tech.
7	Environmental Engg. Lab	3	Conductive meter, BOD digester, COD digester, Muffle furnace, Turbidity meter, Air sampler, Ph meter, Total Hardness apparatus	2	Arvind Kumar Swarnakar	Senior Technical Assistan	M.Tech.
8	Water Resource Engg. Lab	4	Bernoulli's theorem apprt., Centrifugal pump series and parallel, Hydraulic bench, Open channel test, Infiltration test, Rain gauge, DORS, Visualization	2	Yugal Kishor Nayak	Technical Assistant	XII, Diploma

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Survey Lab	The following safety measures have been adopted. -To ensure proper use of all safety devices and other personal protective equipment (Gloves and Helmets, etc.). -Appropriate protective clothing and footwear must be worn at all times, and long hair must be tied back. -Long pants and shoes completely covering the top of the foot should be worn at all times when working in the lab and field. -Do not touch any equipment or any other materials in the laboratory until you are instructed to do so. -Always carry a water bottle with you while surveying in the field, and protect yourself from the sun by wearing a cap. -Keep bags and coats in the designated area, as they can cause people to trip if they are lying around the room. - Never work alone in the laboratory field. -Properly handle all the instruments after use.
2	Geotechnical Engineering Lab	The following safety measures have been adopted. Ensure proper use of all safety devices and other personal protective equipment (Gloves, Lab Coats, etc.) Appropriate protective clothing and footwear must be worn at all times, and long hair must be tied back. Long pants and shoes that completely cover the top of the foot should be worn at all times when working in the lab. Wear the appropriate personal protective equipment when conducting work with hazardous materials or procedures. Eye protection should be worn when performing tasks with the potential to generate flying particles or debris. Most power tool-related tasks generate such hazards. Do not touch any equipment, chemicals or any other materials in the laboratory until you are instructed to do so. Training should be provided for all new lab users. Training of existing users must also be provided when new hazards are introduced into a laboratory, e.g., during the introduction of new substances, processes, or equipment. Only proper equipment, in good condition, should be used. Before trying something very different from the equipment's intended use, please talk to the lab in charge. Never work alone in the laboratory. Power off all the instruments after use. Laboratories must be locked if no one is in the lab. First aid kits are available in quickly accessible, visible and designated places. Ensure that first-aid kits have not expired.
3	Structural Lab	This laboratory is under CCTV surveillance. Any misconduct will not be tolerated. Fill in the details of your visit to the laboratory visitor register. Do not attempt to download or install any software on the computer without the permission of the professor-in-charge. Do not change the desktop wallpaper. Take your CD, USB, or memory stick and log off before you leave the laboratory. You may switch off mobile phones while working in the lab. Alternatively, keep vibration/silence mode on. No one is allowed to alter the settings of any computer in the laboratory without proper authorisation. No bags are allowed in the laboratory. No Food or Drinks are allowed in the laboratory. The Internet is used for institute-related work ONLY. Surfing through websites or sending ethically wrong e-mails is strictly prohibited. Save all the data in the D-drive of the system. Changes in the C-Drive are strictly prohibited. One must include his/her roll number in the file name while saving any file. Lab computers are strictly for academic purposes only. Therefore, you are encouraged to use them to maximize your learning capacity. The laboratory assistant has the right to instruct any user to leave the premises in case of violation of any of the policies.
4	Fluid Mechanics Lab	• Students should report to the labs concerned as per the timetable. • The record should be updated from time to time, and the previous experiment must be signed by the faculty member in charge before attending the lab. • Students who turn up late to the labs will in no case be permitted to perform the experiment scheduled for the day. • After the completion of the experiment, certification of the staff in-charge concerned in the observation book is necessary. • Students should bring a notebook of about 100 pages and should enter the readings/observations/results into the notebook while performing the experiment. • The record of observations, along with the detailed experimental procedure of the experiment performed in the immediate previous session, should be submitted and certified by the staff member in-charge. • The group-wise division made at the beginning should be adhered to, and no mixing of students among different groups will be permitted later. • When the experiment is completed, students should disconnect the setup they made and return all the components/instruments they used. • Any damage to the equipment or burnout of components will be taken seriously, either by imposing a penalty or by dismissing the entire group of students from the lab for the semester/year. • Students should be present in the labs for the total scheduled duration. • Procedure sheets/data sheets provided to the student groups should be maintained neatly and are to be returned after the experiment. SAFETY PRECAUTIONS • The student must wear shoes, hand gloves, a mask, and goggles. • Students are advised not to wear loose clothes and to maintain a safe distance from the working machines.
5	Concrete Lab	• Follow the dress code • Wear safety gear • Take responsibility for your personal safety • Maintain a clean workspace • Follow work procedures • Stay alert and attentive • Keep exits clear • Follow safety guides • First aid box is available
6	Transportation Lab	• All Students should wear personal protective equipment - eye protection, shoes, gloves, face shield, Nose mask and apron • Perform Bitumen related experiments in the presence of Technical staff only. • Utmost Care shall be taken while mixing, transferring and compacting of Bitumen mix samples. • Do not add water to the Bitumen samples while heating. • Do not wear shorts or miniskirts (anything that would leave your legs bare and unprotected). • Do not wear high-heeled shoes, open-toed/heel shoes, sandals or shoes made of woven materials. Confine long hair and loose clothing. • Avoid direct contact with any chemical. • Never smell, inhale or taste laboratory chemicals. • Never remove chemicals from the facility without proper authorization.

7	Environmental Engg. Lab	• Ensure proper use of all safety devices and other personal protective equipment (Gloves, Lab Coats etc.) • Appropriate protective clothing and footwear must be worn at all times and long hair must be tied back. • Long pants and shoes completely covering the top of the foot should be worn at all times when working in the lab. • Combine reagents in their appropriate order, never add acid to water • Avoid adding solids to hot liquids. • Never leave containers of chemicals open • Never consume and/or store food or beverages or apply cosmetics in areas where hazardous chemicals are used or stored • Do not use mouth suction for pipetting or starting a siphon • Do not touch any equipment, chemicals or any other materials in the laboratory until you are instructed to do so. • Never work alone in the laboratory. • Power off all the instruments after use.
8	Water Resource Engg. Lab	• In the absence of instructor, no student shall be allowed to work in the laboratory. • Don't leave experiments running unattended. • Be aware of various experimental controls. • Shoes must cover the entire foot. Open toed shoes and sandals are inappropriate footwear in laboratories. • Make sure that all equipment is clean and returned to its origin. • Any injuries should be reported immediately to lab instructor for proper care.

D3. Project Laboratory/Research Laboratory

Memorandums of Understanding, a Centre of Excellence, an Innovation Hub, an Entrepreneurship Cell, and a Career Development Cell have been established to enhance students quality.

Career Development Cell (CDC):

To provide pertinent career opportunities to the students and also to inculcate a drive for innovation and entrepreneurship in students the institute has created the Career Development Centre. The Centre strives to make the students prime choice for human resource requirements of premier global companies by grooming the students through relevant skill development programmes. The Centre is also keenly driven to create environment and support system to motivate and nurture the entrepreneurial and innovation skills of the students through its Innovation and Entrepreneurship Cells. CDC endeavours to equip the students with skill sets essential and coveted in the continuously evolving areas of engineering and technology. It strive for a symbiotic industry-institute relationship by involving the institute with industry in several activities such as campus placements, internships, industrial visits, expert lectures and seminars from industry heads and prominent professionals.

Central Computer Centre (CCC):

The Central Computer Centre administers and manages the network services in the Institute. Some major tasks being looked after by the center are:

- Providing internet services to the Institute.
- Email server management for employees of the Institute.
- Hosting and managing the Institute website (in-house).
- Running all useful and essential services in-house, like naming services, file sharing services, DHCP services, internet sharing services, firewall, web application services, etc to the institute for different purposes.
- Providing the facility of Net based installation of major distribution of operating systems to the Institute, like FEDORAx, Centos, Redhat, Windows, etc
- Availing the different types of software to the Institute, like MATLAB, ANSYS, Antivirus, SPSS, MSSQL Servers etc.
- Providing support to the technical team of the companies visiting for campus placement of students.
- NKN (National Knowledge Network) has also been a part of CCC.

Continuing Education Cell (CEC)

The objectives of the Continuing Education Cell (CEC) can be categorically stated as follows:

- To help technical professionals in updating their skills and broadening their knowledge base.
- To upstream the existing technical qualifications of individuals, thus enabling their personal growth.
- To contribute towards the scientific and technological expansion of the nation by organising seminars, workshops.
- To assist the industry, academic and research organisations and individuals to be globally competitive by providing training and expertise in critical areas.

Industry Institute Collaboration Cell (IICC)

Objectives and Activities of IICC

- To Align Educational Programs with Industry Needs
- To Organise Industrial Visits and In-Plant Training for Students
- To Foster Strong Industry Links for Collaborative Research and Technology Transfer
- To Facilitate Practical Training of Students in Industries
- To Establish a Centre of Excellence in Collaboration with Industry
- To Conduct Joint Research Programs and Consultancies
- To Ensure Industry Participation in Curriculum Development
- To Promote Commercialisation and Application of Technologies
- To Facilitate Industry-Sponsored M.Tech./Ph.D. Programs
- To Offer Industry-Sponsored R&D Labs and Professor Chairs

Innovation Cell (IC):

The objectives of Innovation Cell, NITRR are:

- To channelise the knowledge and the energy of youth towards becoming active partners in the economic development process
- To motivate, support and mentor students for the identification and development of their innovative ideas
- To catalyse and promote the development of knowledge-based and innovation-driven enterprises, and promote employment opportunities amongst youth, especially students
- To inculcate a culture of innovation-driven entrepreneurship
- To act as an institutional mechanism for providing various services, including information on all aspects of enterprise building to budding S&T innovators

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
2022-23(CAYm2)	1019	51	43	15	73
2023-24(CAYm1)	1019	51	41	17	71
2024-25(CAY)	1019	51	53	23	92

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	500.00	156.64	450.00	54.50	200.00	110.73	670.00	939.76
Library	225.00	224.56	175.00	176.22	200.00	165.03	265.00	163.20
Laboratory equipment	400.00	459.22	600.00	271.87	500.00	258.90	800.00	355.00
Teaching and non-teaching staff salary	8300.00	8223.51	7200.00	6835.89	6300.00	6069.64	7618.00	5752.32
Outreach Programs	0	0	0	0	0	0	0	0
R&D	0	0	0	0	0	0	0	0
Training, Placement and Industry linkage	0	0	0	0	0	0	0	0
SDGs	0	0	0	0	0	0	0	0
Entrepreneurship	0	0	0	0	0	0	0	0
Others, specify	7821.98	7785.07	6520.00	5836.33	5553.00	5361.28	7253.00	3780.24
Total	17246.98	16849.00	14945.00	13174.81	12753.00	11965.58	16606.00	10990.52

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	17596230	5816200	6510000	5204000	7424470	4835507	9956200	7847707
Software	601800	601800	1490000	590000	2634600	2044600	0	0
SDGs	0	0	0	0	0	0	0	0
Support for faculty development	0	0	0	0	0	0	0	0
R & D	0	0	0	0	0	0	0	0
Industrial Training, Industry expert, Internship	0	0	0	0	0	0	0	0
Miscellaneous Expenses*	0	0	0	0	0	0	0	0
Total	18198030	6418000	8000000	5794000	10059070	6880107	9956200	7847707