

NATIONAL BOARD OF ACCREDITATION

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

Program Name : Computer Science and Engineering	Discipline : Engineering & Technology
Level : Under Graduate	Tier : 1
Application No : 11329	Date of Submission : 11-12-2025

PART A- Profile of the Institute

A1.Name of the Institute: Noorul Islam College of Engineering	
Year of Establishment : 1989	Location of the Institute:
A2. Institute Address: Kumaracoil, Thuckalay	
City:Kanniyakumari (HQ : Nagercoil)	State:Tamil Nadu
Pin Code:629180	Website:www.niuniv.com
Email:info@niuniv.com	Phone No(with STD Code):04651-250566
A3. Name and Address of the Affiliating University (if any):	
Name of the University :	City:
State :	Pin Code:
A4. Type of the Institution: Deemed University	
A5. Ownership Status:	

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

- No. of UG programs: **2**
- No. of PG programs: **4**

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

Sr.No.	Discipline	Level of program	Name of the program	Year of Start	Year of Closed	Name of The Department
1	Computer Application	PG	Master of Computer Application	1995	--	Computer Application
2	Engineering & Technology	UG	Computer Science and Engineering	1989	--	Computer Science and Engineering
3	Engineering & Technology	PG	Computer Science and Engineering	2002	--	Computer Science and Engineering
4	Engineering & Technology	PG	Cyber Security	2013	--	Information Technology
5	Engineering & Technology	UG	Information Technology	1998	--	Information Technology
6	Management	PG	Master of Business Administration	1994	--	Management

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

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

Name of the Department	Having Allied Departments	Name of the Program	Program Level
Information Technology	No	Information Technology	UG

Computer Science and Engineering	No	Computer Science and Engineering	UG
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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	Computer Science and Engineering	UG	1989 / --	30	Yes	2024	60	2024	AICTE	Granted accreditation for 3 years for the period (specify period)	2007	2010	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 :	Ranjith V.G
B. Nature of appointment:	Regular
C. Qualification:	M.E. and 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)	60	60	30	30	25	25	25
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	31	65	44	36	19	20	20
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	0	0	7	13	8	6
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.	31	65	44	43	32	28	26

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)	60	31	0	51.67
2024-25 (CAYm1)	60	65	0	108.33
2023-24 (CAYm2)	30	44	0	146.67

Average [(ER1 + ER2 + ER3) / 3] = 102.22≅ 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).	38.00	33.00	31.00
B=No. of students who graduated from the program in the stipulated course duration	15.00	17.00	16.00
Success Rate (SR)= (B/A) * 100	39.47	51.52	51.61

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 47.53

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)	7.14	6.86	6.54
Y=Total no. of successful students	60.00	46.00	35.00
Z=Total no. of students appeared in the examination	60.00	46.00	35.00
API [X*(Y/Z)]	7.14	6.86	6.54

Average API[(AP1+AP2+AP3)/3] : 6.85

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

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

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 2nd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2nd year/10)	7.00	6.92	6.94
Y=Total no. of successful students	45.00	35.00	29.00
Z=Total no. of students appeared in the examination	41.00	41.00	29.00

API [X * (Y/Z)]	7.68	5.91	6.94
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Average API [(AP1 + AP2 + AP3)/3] : 6.84

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)	7.02	7.14	7.13
Y=Total no. of successful students	35.00	26.00	24.00
Z=Total no. of students appeared in the examination	35.00	29.00	24.00
API [X*(Y/Z)]:	7.02	6.40	7.13

Average API [(AP1 + AP2 + AP3)/3] : 6.85

B9. Placement, Higher Studies, and Entrepreneurship

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

Item	LYG (2021-22)	LYGm1(2020-21)	LYGm2(2019-20)
FS*=Total no. of final year students	38.00	33.00	31.00
X=No. of students placed	14.00	11.00	24.00
Y=No. of students admitted to higher studies	0.00	0.00	0.00
Z= No. of students taking up entrepreneurship	0.00	0.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	36.84	33.33	77.42

Average Placement Index = (P_1 + P_2 + P_3)/3: 49.20 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	Ben Sujitha B	XXXXXXX17L	M.E. and Ph.D.	Anna University	Cyber Security, Data Analytics	14/08/2023	2.3	Professor	Professor		Regular	Yes		No
2	Mary Amala Bai V	XXXXXXX87N	M.E. and Ph.D.	Anna University	Data Mining	10/12/2004	20.11	Lecturer	Associate Professor	01/02/2018	Regular	Yes		No

3	Judith J E	XXXXXX54A	M.E. and Ph.D.	Noorul Islam Centre for Higher Education	Machine Learning	07/07/2006	19.5	Lecturer	Associate Professor	15/02/2018	Regular	Yes		No
4	Anitha A	XXXXXX95N	M.E. and Ph.D.	Noorul Islam Centre for Higher Education	Wireless networks	19/02/2008	17.9	Lecturer	Associate Professor	07/09/2019	Regular	Yes		No
5	Beni G	XXXXXX09F	M.E. and Ph.D.	Anna University	Networks	10/08/2023	2.3	Associate Professor	Associate Professor		Regular	Yes		No
6	Nisha Evangelin L	XXXXXX31P	M.E. and Ph.D.	Sathyabhama University	Image Processing	19/08/2024	1.3	Associate Professor	Associate Professor		Regular	Yes		No
7	Ranjith V.G	XXXXXX13G	M.E. and Ph.D.	Noorul Islam Centre for Higher Education	Image Processing	10/08/2002	23.4	Lecturer	Assistant Professor		Regular	Yes		Yes
8	Venifa Mini G	XXXXXX97P	M.E. and Ph.D.	Noorul Islam Centre for Higher Education	Cloud Computing	18/01/2008	17.10	Lecturer	Assistant Professor		Regular	Yes		No
9	Safrin S	XXXXXX75C	M.E.	Anna University	AI and DS	18/11/2019	6	Assistant Professor	Assistant Professor		Regular	Yes		No
10	Jebin Bose S	XXXXXX96F	M.E. and Ph.D.	Noorul Islam Centre for Higher Education	Data Analytics and Network Security	30/03/2021	4.8	Assistant Professor	Assistant Professor		Regular	Yes		No
11	Jelintaric G	XXXXXX22B	M.Tech	SRM Institute of Science and Technology	Data Science	18/06/2022	3.5	Assistant Professor	Assistant Professor		Regular	Yes		No
12	Jothy C R	XXXXXX25R	M.E.	Anna University	Blockchain	18/07/2022	3.4	Assistant Professor	Assistant Professor		Regular	Yes		No
13	A. Shajin Nargunam	XXXXXX66A	M.E. and Ph.D.	National Institute of Technology Calicut	Wireless networks	04/08/1997	28.4	Lecturer	Professor	10/08/2009	Regular	Yes		No
14	S.Athira	XXXXXX26P	M.E.	Anna University	CSE	11/11/2025	0	Assistant Professor	Assistant Professor		Regular	Yes		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 Department1

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

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.B	60	65	64
UG1.C	65	64	66
UG1.D	64	66	66
UG1: Computer Science and Engineering	189	195	196
PG1.A	12	12	12
PG1.B	12	12	12
PG1: Computer Science and Engineering	24	24	24
DS=Total no. of students in all UG and PG programs in the Department	213	219	220
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= 213	S2= 219	S3= 220
DF=Total no. of faculty members in the Department	13	13	12
AF= Total no. of faculty members in the allied Departments	0	0	0
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	F1= 13	F2= 13	F3= 12
FF=The faculty members in F who have a 100% teaching load in the first-year courses	1	1	1
Student Faculty Ratio (SFR)=S/(F-FF)	SFR1= 17.75	SFR2= 18.25	SFR3= 20.00
Average SFR for 3 years	SFR= 18.67		

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 = $2.5 \times [(10X + 4Y) / RF]$
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2025-26(CAY)	10	3	10.00	28.00
2024-25(CAYm1)	9	4	10.00	26.50
2023-24(CAYm2)	8	4	10.00	24.00

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	1.00	2.00	2.00	5.00	7.00	6.00
2024-25	1.00	2.00	2.00	5.00	7.00	6.00
2023-24	1.00	2.00	2.00	4.00	7.00	6.00
Average	RF1=1.00	AF1=2.00	RF2=2.00	AF2=4.67	RF2=7.00	AF2=6.00

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	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)
1	No. of peer reviewed journal papers published	38	13	17
2	No. of peer reviewed conference papers published	37	29	31
3	No. of books/book chapters published	17	8	2

C7. Sponsored Research Project

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

(CAYm1)

(CAYm2)

(CAYm3)

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

Note*:

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

C8. Consultancy Work

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

(CAYm1)

(CAYm2)

(CAYm3)

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

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
			Amount received (Rs.): 0		

(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
J. E. Judith	Unveiling the IoT's dark corners: anomaly detection enhanced by ensemble modelling	2	100000.00		
			Amount received (Rs.): 100000.00		

(CAYm3)

Total amount (Lacs) received for the past 3 years : 100000.00

PART D: Laboratory Infrastructure in the Department
(Data to be filled in for the Department)

D1. Adequate and Well-Equipped Laboratories, and Technical Manpower

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

Sr. No	Name of the Laboratory	Number of students per set up(Batch Size)	Name of the Important Equipment	Weekly utilization status(all the courses for which the lab is utilized)	Technical Manpower Support		
					Name of the Technical staff	Designation	Qualification
1	Computer Laboratory I	50	SERVER - 1 Common (I&II) Switch – 3 UPS – 4 Common (I&II) Lenova Pentium 4 core 2 duo - 5 i5 7th Gen – 50`	CS3273 OBJE	V. Viji Kumar	Lab Assistant	COPA
2	Computer Lab II	50	SERVER 1 Common (I&II) Switch – 4 UPS – 4 Common (I&II) Lenova Pentium 4 core 2 duo – 7 i3 processor- 3 i5-10400 – 20 i5 7th Gen – 24`	CS3285 COMF	V. Viji Kumar	Lab Assistant	COPA
3	Micro Processor and Micro Controller Lab	30	8084-51,8086-23,8051-20 Interfacing Board – 23 System – 5 Arm - 5	CS3278 - Micr	J. Jeya Sheeba	Lab Assistant	Diploma in Computer Sci

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Computer Lab I	Emergency Exit Fire Extinguisher

D3. Project Laboratory/Research Laboratory

The **Intel Unnati Lab and Cloud Computing Lab** is utilized to support advanced learning, innovation, and research activities. The lab provides students and faculty with access to industry-standard hardware, software tools, and Intel-supported frameworks for emerging technologies.

It is actively used for:

1. Student projects (mini projects, final year projects, capstone projects)
2. Research and development activities by faculty and students
3. Hands-on training in AI, Machine Learning, Data Science, IoT, and High-Performance Computing
4. Innovation, prototyping, and proof-of-concept development
5. Industry-oriented problem solving and collaborative research
6. Skill development programs, workshops, and hackathons
7. Research and development activities in cloud computing, virtualization, containerization, and distributed systems
8. Hands-on training on cloud platforms, virtual machines, storage, networking, and DevOps tools
9. Design and deployment of cloud-based applications and services

The **Intel Unnati Lab and Cloud Computing Lab** functions as a Centre of Excellence, fostering industry-academia collaboration, enhancing research culture, and improving students' employability and readiness for advanced technological roles.

Fig 7.5.1 Intel Unnati Lab

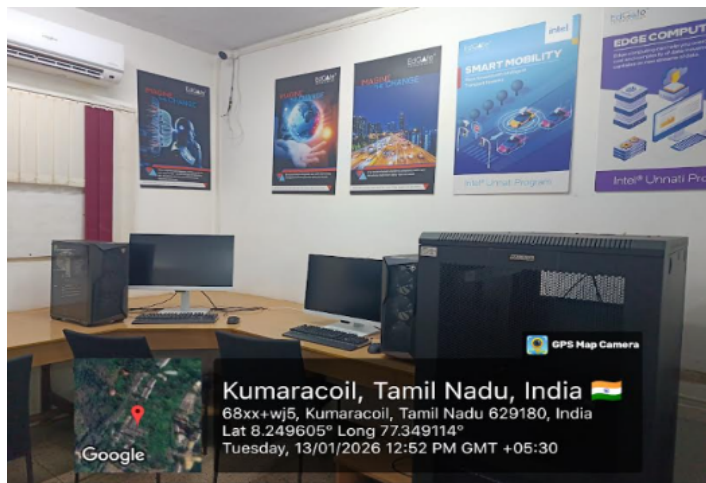
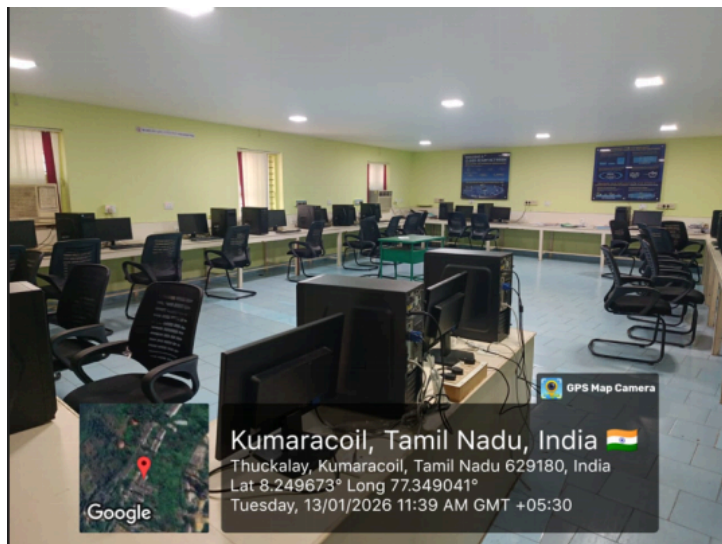


Fig 7.5.1 Cloud Computing Lab



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)	300	15	10	8	64
2024-25(CAYm1)	300	15	10	8	64
2025-26(CAY)	240	12	11	8	87

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	250.00	17.36	75.00	179.55	90.00	106.74	15.00	9.35
Library	44.48	1.10	40.44	1.93	38.51	3.94	25.06	0.10

Laboratory equipment //	100.00	0.17	110.04	5.19	25.00	33.90	20.00	3.47
Teaching and non-teaching staff salary //	1699.00	1029.99	1417.69	1373.90	1333.69	1313.01	1390.90	1315.06
Outreach Programs //	115.59	6.46	115.35	114.65	12.47	10.14	9.70	6.67
R&D //	185.86	59.33	173.54	91.55	76.77	81.03	60.56	25.51
Training, Placement and Industry linkage //	81.90	67.87	76.04	57.56	69.53	71.65	66.63	69.91
SDGs //	0	0	0	0	0	0	0	0
Entrepreneurship //	0	0	0	0	0	0	0	0
Others, specify //	2525.72	1366.66	2110.27	1768.43	1353.82	1519.89	1109.39	1084.77
Total	5002.55	2548.94	4118.37	3592.76	2999.79	3140.30	2697.24	2514.84

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 //	7000000	6345910	0	0	4800000	4499267	2500000	2269388
Software //	0	0	0	0	0	0	0	00
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	7000000	6345910	0	0	4800000	4499267	2500000	2269388