

NATIONAL BOARD OF ACCREDITATION

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

Program Name : ELECTRONICS AND COMMUNICATION ENGINEERING	Discipline : Engineering & Technology
Level : Under Graduate	Tier : 2
Application No : 11585	Date of Submission : 21-02-2026

PART A- Profile of the Institute

A1.Name of the Institute : ECHELON INSTITUTE OF TECHNOLOGY, FARIDABAD	
Year of Establishment : 2007	Location of the Institute: Faridabad
A2. Institute Address :ECHELON INSTITUTE OF TECHNOLOGYVILLAGE-KABULPUR, KHERI-MANJHAWALI ROAD, NEHARPAAR, FARIDABAD-121101	
City:Faridabad	State:Haryana
Pin Code:121101	Website:www.eitfaridabad.com
Email:info@eitfaridabad.com	Phone No(with STD Code):0129-6942135
A3. Name and Address of the Affiliating University (if any):	
Name of the University : MAHARSHI DAYANAND UNIVERSITY ROHTAK	City: Rohtak
State : Haryana	Pin Code: 110078
A4. Type of the Institution : Self-Supported Institute	
A5. Ownership Status : Self financing	

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

- No. of UG programs: **12**
- 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	2023	--	Computer Application
2	Engineering & Technology	UG	Civil Engineering	2011	--	Civil Engineering
3	Engineering & Technology	UG	Computer Science and Engineering	2007	--	Computer Science and Engineering
4	Engineering & Technology	PG	Computer Science and Engineering	2011	--	Computer Science and Engineering
5	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	2023	--	Computer Science and Engineering
6	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence and Data Science)	2025	--	Computer Science and Engineering
7	Engineering & Technology	UG	Computer Science and Engineering (Cyber Security)	2024	--	Computer Science and Engineering

8	Engineering & Technology	UG	Computer Science and Engineering (Data Science)	2023	--	Computer Science and Systems Engineering
9	Engineering & Technology	UG	Computer Science and Engineering (Internet of Things and Cyber Security including Blockchain Technology)	2025	--	Computer Science and Engineering
10	Engineering & Technology	UG	Electronics & Communication Engineering	2007	--	Electronics and Communication Engineering
11	Engineering & Technology	PG	Mechanical Engineering	2012	--	Mechanical Engineering
12	Engineering & Technology	UG	Mechanical Engineering	2009	--	Mechanical Engineering
13	Engineering & Technology	UG	Mechatronics Engineering	2024	--	Mechanical Engineering
14	Engineering & Technology	UG	Nano Science & Technology	2025	--	Electronics and Communication Engineering
15	Engineering & Technology	UG	Robotics and Artificial Intelligence	2025	--	Computer Science and Engineering
16	Management	PG	Master of Business Administration	2023	--	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
Mechanical Engineering	No	Mechanical 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)

Allied Department/Cluster Name	Program Name	Program Level
Electronics and Communication Engineering	Nano Science & Technology	UG

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:

List of the Allied Departments/Cluster and Programs:

SR.NO.	ALLIED DEPARTMENT NAME	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
1	Electronics and Communication Engineering	Nano Science & Technology	UG	2025 / --	60	No	NA	60	2025	EOA 2025-26	Not eligible for accreditation	--	--	0

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

A. Name of the HoD :	Pramod Singh
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)	30	30	30	60	60	60	60
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	4	7	4	13	16	0	14
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	0	4	5	3	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.	4	7	8	18	19	0	14

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)	30	4	0	13.33
2024-25 (CAYm1)	30	7	0	23.33
2023-24 (CAYm2)	30	4	0	13.33

Average [(ER1 + ER2 + ER3) / 3] = 16.66= 0.00

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	(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).	19.00	0.00	14.00
B=No. of students who graduated from the program in the stipulated course duration	1.00	0.00	8.00
Success Rate (SR)= (B/A) * 100	5.26	0.00	57.14

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 31.20

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)	4.61	6.20	6.24
Y=Total no. of successful students	7.00	4.00	13.00
Z=Total no. of students appeared in the examination	7.00	4.00	13.00
API [X*(Y/Z)]	4.61	6.20	6.24

Average API [(AP1+AP2+AP3)/3] : 5.68

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)	4.83	4.97	3.67
Y=Total no. of successful students	7.00	17.00	18.00
Z=Total no. of students appeared in the examination	8.00	18.00	19.00
API [X * (Y/Z)]	4.23	4.69	3.48

Average API [(AP1 + AP2 + AP3)/3] : 4.13

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)	5.78	4.43	0.00
Y=Total no. of successful students	15.00	15.00	0.00
Z=Total no. of students appeared in the examination	17.00	18.00	0.00
API [X*(Y/Z)]:	5.10	3.69	0.00

Average API [(AP1 + AP2 + AP3)/3] : 2.93

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	63.00	60.00	60.00
X=No. of students placed	0.00	0.00	11.00
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):	0.00	0.00	18.33

Average Placement Index = (P_1 + P_2 + P_3)/3: 6.11 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	Mittar Pal	XXXXXXXX03R	M.Tech	KURUSHETRA UNIVERSITY	NANO SCIENCE AND TECHNOLOGY	16/06/2025	0.7	Assistant Professor	Assistant Professor		Regular	Yes		No
2	NEERAJ JOSHI	XXXXXXXX43D	M.Tech	KURUSHETRA UNIVERSITY	Electronics and Communication Engineering	02/07/2024	1.7	Assistant Professor	Assistant Professor		Regular	Yes		No
3	BIKRANT KUMAR	XXXXXXXX14N	M.Tech	RAJEEV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL	Electronics and Communication Engineering	04/01/2012	14.1	Assistant Professor	Assistant Professor		Regular	Yes		No
4	ISHA GAUTAM	XXXXXXXX51B	M.Tech	YMCA UNIVERSITY OF SCIENCE AND TECHNOLOGY	POWER SYSTEM AND DRIVES	01/07/2025	0.7	Assistant Professor	Assistant Professor		Regular	Yes		No
5	KUMAIL HASAN NAQVI	XXXXXXXX15H	M.Tech	ALIGARH MUSLIM UNIVERSITY, ALIGARH	POWER SYSTEM AND DRIVES	01/08/2025	0.6	Assistant Professor	Assistant Professor		Regular	Yes		No
6	MAHAVEER PRASAD SHARMA	XXXXXXXX70H	M.Tech	RAJEEV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL	Electronics and Communication Engineering	02/03/2020	5.11	Assistant Professor	Assistant Professor		Regular	Yes		No
7	VIKALENDU	XXXXXXXX09D	M.Tech	MAHARSHI DAYANAD UNIVERSITY, ROHTAK	ELECTRICAL ENGINEERING	18/08/2022	3.5	Assistant Professor	Assistant Professor		Regular	Yes		No
8	KUNDAN AGRAWAL	XXXXXXXX32J	M.Tech	DEVI AHILA VISWAVIDALAYA, INDORE	EMBEDDED SYSTEM	17/04/2023	2.9	Assistant Professor	Assistant Professor		Regular	Yes		No
9	SONAL KAUSHIK	XXXXXXXX40E	M.Tech	MAHARSHI DAYANAD UNIVERSITY, ROHTAK	Electronics and Communication Engineering	21/08/2023	2	Assistant Professor	Assistant Professor		Regular	No	21/08/2025	No

10	VISHAKHA YADAV	XXXXXXXX84P	M.Tech	J C BOSE UNIVERSITY OF SCIENCE AND TECHNOLOGY, FARIDABAD	Electronics and Communication Engineering	25/08/2022	3.5	Assistant Professor	Assistant Professor		Regular	Yes		No
11	NEETU CHAUHAN	XXXXXXXX07H	M.Tech	PUNJAB TECHNICAL UNIVERSITY, JALANDHAR	Electronics and Communication Engineering	05/08/2010	13.11	Assistant Professor	Associate Professor	31/07/2018	Regular	No	15/07/2024	No
12	MRINAL MANJARI	XXXXXXXX81H	M.Tech	MAHARSHI DAYANAD UNIVERSITY, ROHTAK	Electronics and Communication Engineering	31/03/2011	13.3	Assistant Professor	Associate Professor	14/01/2020	Regular	No	08/07/2024	No
13	KULWINDER KAUR	XXXXXXXX42R	M.Tech	PUNJAB TECHNICAL UNIVERSITY, JALANDHAR	Electronics and Communication Engineering	03/12/2009	14.5	Assistant Professor	Associate Professor	17/07/2017	Regular	No	01/05/2025	No
14	DIKSHA KUSHWAHA	XXXXXXXX85A	M.Tech	DEEN BANDHU CHHOTU RAM UNIVERISTY OF SCIENCE AND TECHNOLOGY, MURUTHAL	ELECTRICAL ENGINEERING	14/09/2022	1.11	Assistant Professor	Assistant Professor		Regular	No	30/08/2024	No
15	SONAM AGGARWAL	XXXXXXXX17E	M.Tech	MAHARSHI DAYANAD UNIVERSITY, ROHTAK	Electronics and Communication Engineering	09/07/2018	6	Assistant Professor	Assistant Professor		Regular	No	03/08/2024	No
16	Arvind Kumar Pandey	XXXXXXXX33N	Ph.D	Madan Mohan Malviya university of Technology, Gorakhpur	Electronics and Communication Engineering	16/06/2025	0.8	Professor	Professor		Regular	Yes		No
17	Pramod Singh	XXXXXXXX46H	Ph.D	Guru Gobind Singh Indraprastha University, New Delhi	Electronics and Communication Engineering	16/08/2024	1.6	Professor	Professor		Regular	Yes		Yes
18	MUKESH KUMAR SAINI	XXXXXXXX05K	Ph.D	DEEN BANDHU CHHOTU RAM UNIVERISTY OF SCIENCE AND TECHNOLOGY, MURUTHAL	POWER SYSTEM AND DRIVES	16/08/2022	3.5	Professor	Professor		Regular	Yes		No
19	JASPAL KUMAR	XXXXXXXX62E	Ph.D	DELHI UNIVERSITY	Electronics and Communication Engineering	15/07/2024	0.10	Professor	Professor		Regular	No	29/05/2025	No
20	RAJEEV KUMAR ANAND	XXXXXXXX80F	Ph.D	SINGHANIA UNIVERSITY, RAJASTHAN	Electronics and Communication Engineering	04/09/2018	7.5	Professor	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 Department0

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

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.B	30	33	66
UG1.C	33	66	63
UG1.D	66	63	60
UG1: Electronics & Communication Engineering	129	162	189
UG2.B	0	0	0
UG2.C	0	0	0
UG2.D	0	0	0
UG2: Nano Science & Technology	0	0	0
DS=Total no. of students in all UG and PG programs in the Department	129	162	189
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= 129	S2= 162	S3= 189
DF=Total no. of faculty members in the Department	13	12	13
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= 12	F3= 13
FF=The faculty members in F who have a 100% teaching load in the first-year courses	3	2	2
Student Faculty Ratio (SFR)=S/(F-FF)	SFR1= 12.90	SFR2= 16.20	SFR3= 17.18
Average SFR for 3 years	SFR= 15.43		

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	$FQ = 2.5 \times [(10X + 4Y) / RF]]$
2025-26(CAY)	4	9	6.00	31.67
2024-25(CAYm1)	4	8	8.00	22.50
2023-24(CAYm2)	2	11	9.00	17.78

C4. Faculty Cadre Proportion

- Faculty Cadre Proportion is 1(RF1): 2(RF2): 6(RF3)
- RF1= No. of Professors required = $1/9 \times$ No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per C2 of this documents:.
- RF2= No. of Associate Professors required = $2/9 \times$ No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents:.
- RF3= No. of Assistant Professors required = $6/9 \times$ 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	4.00	1.00	0.00	4.00	9.00
2024-25	1.00	4.00	1.00	0.00	5.00	8.00
2023-24	1.00	2.00	2.00	0.00	6.00	11.00
Average	RF1=1.00	AF1=3.33	RF2=1.33	AF2=0.00	RF2=5.00	AF2=9.33

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	Dr. Abdul Aleem	Professor	Galgotias University	MATLAB	50.00
2	Mr.Rahul Tiwari	Trainer	Code Squarz	Python	50.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dr. Abdul Aleem	Professor	Galgotias University	MATLAB	50.00
2	Mr.Rahul Tiwari	Trainer	Code Squarz	Python	50.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dr. Abdul Aleem	Professor	Galgotias University	MATLAB	50.00
2	Mr. Shailender Kumar Singh	Assistant Professor	MIET, Meerut	Python	50.00

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	9	0	4
2	No. of peer reviewed conference papers published	7	0	9
3	No. of books/book chapters published	0	0	0

C7. Sponsored Research Project

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

(CAYm1)

(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. Rajeev Kumar Anand		Electronics and Communication Engineering	Software Integration for Production & Sales	Neel Products	6 Months	240000.00
Dr. Rajeev Kumar Anand		Electronics and Communication Engineering	Web Content Design and Development	JMD Impax	9 Months	300000.00
Dr. Mukesh Kumar Saini		Electronics and Communication Engineering	IT Equipments	Ambience Airtech Pvt. Ltd.	6 Months	250000.00
Dr. Mukesh Kumar Saini		Electronics and Communication Engineering	IT Equipments	Om Hospital	6 Months	260000.00
						Amount received (Rs.):1050000.00

(CAYm3)

Total Amount (Lacs) Received for the Past 3 Years: 1050000.00**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
						Amount received (Rs.):0

(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 Rajeev Kumar Anand		Electronicsand Communication Engineering	Software Integration	Neel Products	6 months	240000.00
Dr Rajeev Kumar Anand		Electronicsand Communication Engineering	Web Content Development	jMD Impax	9 Months	300000.00
Dr. Mukesh Kumar Saini		Electronicsand Communication Engineering	IT Equioment	Ambience Airtech	6 Months	250000.00
Dr. Mukesh Kumar Saini		Electronicsand Communication Engineering	IT Equioment	Om Hospital	6 Months	260000.00
						Amount received (Rs.):1050000.00

(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
						Amount received (Rs.):0

Total amount (Lacs) received for the past 3 years: 1050000.00

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)

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

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

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

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

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	Electronics Devices Lab	3	Study of IV Characteristics of PN junction diode	2 Hours	Mr. Kanhaiya Lal	Lab Assistant	B.Tech
2	Digital System Design Lab	3	Design & realize a given function using K-maps and verify its performance., To verify the operation of	2 Hours	Ms. Sarita	Lab Assistant	Diploma
3	Network Theory Lab	3	Transient response of RC circuit, Transient response of RL circuit, To find the resonance frequency and bandwidth of RLC series circuit. To calculate and verify	2 Hours	Ms. Sarita	Lab Assistant	Diploma
4	Analog and Digital Communication Lab	3	Study of Amplitude Modulation and determination of Modulation index., Study of Frequency Modulation and determination of Modulation Index. Study of Phase	2 Hours	Ms. Sarita	Lab Assistant	Diploma
5	Analog Circuits Lab	3	Design & measure the frequency response of an RC coupled amplifier using discrete components., Design a	2 Hours	Ms. Sarita	Lab Assistant	Diploma
6	Microprocessors & Microcontrollers Lab	3	Study of architecture of 8085 & familiarization with its hardware, commands & operation Microprocessor kit,	2 Hours	Ms. Sarita	Lab Assistant	Diploma
7	Digital Signal Processing Lab	3	Represent basic signals (Unit step, unit impulse, ramp, exponential, sine and cosine)., To develop program for	2 Hours	Ms. Sarita	Lab Assistant	Diploma
8	Microwave Lab	3	Study of waveguide components, To study the characteristics of Reflex Klystron Tube and to	2 Hours	Mr. Kanhaiya Lal	Lab Assistant	B.Tech
9	Electronics Measurement Lab	3	Find the value , To study potential transformers (PT).of unknown resistance using Wheatstone Bridge. To	2 Hours	Mr. Kanhaiya Lal	Lab Assistant	B.Tech
10	Computer Networks	3	Study of different types of network cable. Practically implement cross-wired cable and straight through cable	2 Hours	Ms. Sarita	Lab Assistant	Diploma

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Analog Circuits Lab	Avoid direct contact with live circuits; ensure proper grounding before power ON.
2	Digital System Design Lab	Check IC orientation before insertion; switch OFF supply before changing connections.

3	Analog and Digital Communication Lab	Do not exceed specified voltage levels; ensure proper cable connections to avoid short circuits.
4	Microprocessor Lab	Power OFF trainer kits before interfacing; avoid static discharge while handling ICs.
5	DSP Lab	Use ESD precautions while handling boards; ensure proper system shutdown after experiments.
6	Microwave Engineering Lab	Avoid exposure to RF radiation; ensure waveguide connections are properly tightened.
7	Computer Network Lab	Do not plug/unplug LAN cables with wet hands; avoid unauthorized system configuration changes.
8	Embedded Systems Lab	Follow ESD precautions; handle development boards carefully to avoid damage.
9	Electrical Lab	Ensure proper earthing before energizing machines; do not touch rotating parts during operation.
10	IoT Lab	Use low-voltage regulated power supplies; avoid short-circuiting sensor and microcontroller connections.
11	Project Lab	Test circuits on low voltage before full deployment; maintain proper cable management to avoid tripping hazards.

D3. Project Laboratory/Research Laboratory

Objective of Project / Research Laboratory

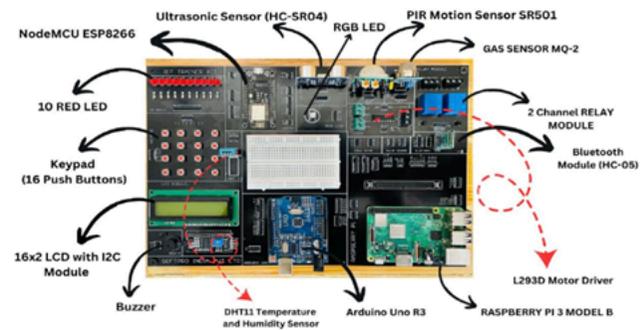
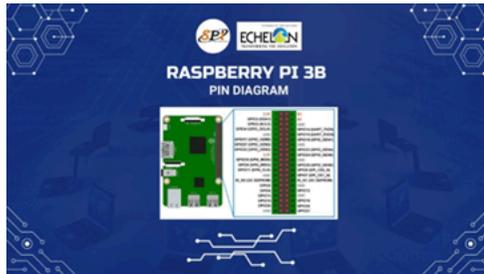
The Project/Research Laboratory is established to:

- Facilitate **final year B.Tech projects**
- Promote **innovation, prototype development, and research culture**
- Support **mini projects, interdisciplinary projects, and consultancy work**
- Enhance attainment of **POs & PSOs**, particularly:
 - PO3 (Design/Development of Solutions)
 - PO4 (Investigation of Complex Problems)
 - PO5 (Modern Tool Usage)
 - PSO1 & PSO2

2. Infrastructure & Facilities Available

A. Physical Infrastructure

- Dedicated lab space with adequate seating capacity
- High-speed internet connectivity
- Whiteboard & presentation facility
- UPS backup power



B. Equipment & Tools Available

- Microcontroller kits
- Raspberry Pi boards
- IoT development kits
- Sensors & transducers
- PCB fabrication tools (where available)
- Soldering stations
- Power supplies, CRO, Function Generators

- Multimeters
- Embedded development tools
- Simulation software (MATLAB/Proteus/Scilab/Multisim as applicable)

3. Research & Innovation Activities

- Final year major projects aligned with:
 - Emerging technologies (IoT, AI, Embedded Systems, Wireless Systems)
 - Industry problems
 - Societal applications
- Students encouraged for:
- Research paper publication
- Prototype demonstration
- Participation in hackathons
- Startup incubation (if applicable)

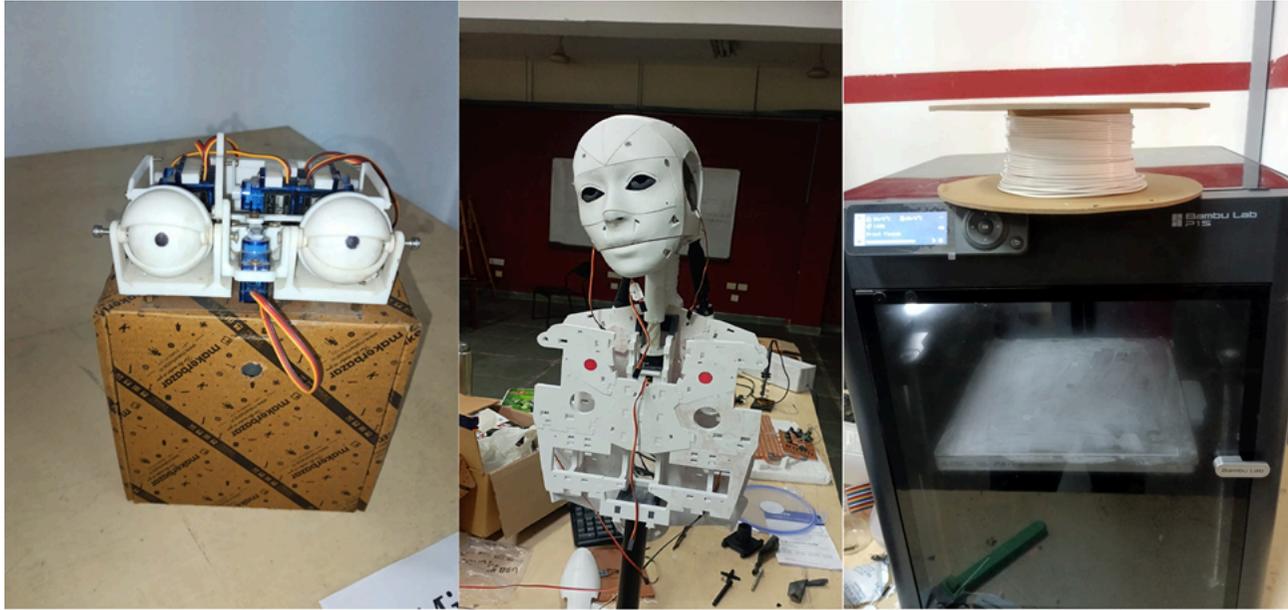
4. Outcome-Based Implementation

Each project is:

- CO-PO-PSO mapped
- Evaluated through rubrics
- Reviewed through periodic project reviews
- Assessed for innovation, implementation, documentation, and presentation

5. Documentation Maintained

- Project allotment register
- Guide allocation record
- Project progress review sheets
- Evaluation rubrics
- List of publications
- Prototype photographs





6. Continuous Improvement Initiatives

- Introduction of interdisciplinary projects
- Industry-sponsored projects (if applicable)
- Alumni mentorship
- Funding proposals for lab upgradation
- Integration of research-oriented electives

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)	360	18	20	8	98
2024-25(CAYm1)	510	26	25	8	83
2025-26(CAY)	840	42	34	10	70

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 2025-26	Actual Expenses in 2025-26 till	Budgeted in 2024-25	Actual Expenses in 2024-25 till	Budgeted in 2023-24	Actual Expenses in 2023-24 till	Budgeted in 2022-23	Actual Expenses in 2022-23 till
Infrastructure Built-Up	2000000.00	1793658.00	3000000.00	2284908.00	8000000.00	7317719.00	1000000.00	429516.00
Library	500000.00	331279.00	600000.00	671992.00	700000.00	623303.00	450000.00	390401.00
Laboratory equipment	12000000.00	10514546.00	11000000.00	9189928.00	3750000.00	4331358.28	2500000.00	1371778.00
Teaching and non-teaching staff salary	100000000.00	82435408.00	100000000.00	92607586.00	70000000.00	73203390.00	70000000.00	56490538.00
Outreach Programs	3000000.00	2242470.00	400000.00	315000.00	300000.00	257000.00	300000.00	192060.00
R&D	1500000.00	1340111.00	300000.00	282946.00	650000.00	605140.00	350000.00	66281.00
Training, Placement and Industry linkage	6000000.00	4866085.00	4000000.00	4495152.00	3000000.00	2751634.00	2000000.00	1501230.00
SDGs	250000.00	197569.00	200000.00	119382.00	300000.00	249000.00	300000.00	110150.00
Entrepreneurship	100000.00	84691.00	100000.00	60000.00	100000.00	70000.00	200000.00	92740.00
Others, specify	100000000.00	68934670.57	61300000.00	69478085.00	57800000.00	62215418.8	52200000.00	52204934.00
Total	225350000.00	172740487.57	180900000.00	179504979.00	144600000.00	151623963.08	129300000.00	112849628.00

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 2025-26	Actual Expenses in 2025-26 till	Budgeted in 2024-25	Actual Expenses in 2024-25 till	Budgeted in 2023-24	Actual Expenses in 2023-24 till	Budgeted in 2022-23	Actual Expenses in 2022-23 till
Laboratory equipment	800000	622297.00	500000.00	495556.00	200000.00	155677.00	200000.00	151803.00

Software	0	0	0	0	0	0	0	0
SDGs	100000	49392.00	50000.00	34800.00	100000.00	74000.00	50000.00	33950.00
Support for faculty development	300000.00	250000.00	25000.00	6200.00	50000.00	21000.00	20000.00	7500.00
R & D	200000.00	152033.00	25000.00	4657.00	50000.00	18172.00	25000.00	5700.00
Industrial Training, Industry expert, Internship	200000	145000.00	110000.00	85068.00	250000.00	146455.00	110000.00	93800.00
Miscellaneous Expenses*	10000000.00	8179001.00	7000000.00	6226889.00	6000000.00	5482050.00	5000000.00	4992871.00
Total	11600000.00	9397723.00	7710000.00	6853170.00	6650000.00	5897354.00	5405000.00	5285624.00