NATIONAL BOARD OF ACCREDITATION

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

Program Name : Electronics & Communication Engineering	**Discipline**: Engineering & Technology
Level : Under Graduate	**Tier**: 1
Application No: 10107	**Date of Submission**: 05-04-2025

PART A- Profile of the Institute

A1.Name of the Institute: Sri Satya Sai University of Technology and Medical Sciences	
Year of Establishment : 1999	Location of the Institute:
A2. Institute Address:SH-18,BHOPAL INDORE ROAD,OPP. OILFED PLANT,PACHAMA SEHORE(MP)	
City:Sehore	State:Madhya Pradesh
Pin Code:462043	Website:www.sssutms.co.in
Email:info@sssutms.co.in	Phone No(with STD Code):-
A3. Name and Address of the Affiliating University (if any):	
Name of the University : SRI SATYA SAI UNIVERSITY OF TECHNOLOGY AND MEDICAL	City:
State :	Pin Code:
A4. Type of the Institution: University	
A5. Ownership Status:	

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

- No. of UG programs: **11**
- No. of PG programs: **14**

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 in Computer Applications	2014	--	Computer Application
2	Engineering & Technology	UG	Aeronautical Engineering	2014	--	Aeronautical Engineering
3	Engineering & Technology	UG	Chemical Engineering	2014	--	Chemical Engineering
4	Engineering & Technology	UG	Civil Engineering	2014	--	Civil Engineering
5	Engineering & Technology	PG	Civil Engineering	2014	--	Civil Engineering
6	Engineering & Technology	UG	Computer Science and Engineering	2014	--	Computer Science and Engineering
7	Engineering & Technology	PG	Computer Science and Engineering	2014	--	Computer Science and Engineering
8	Engineering & Technology	PG	Computer Technology & Application	2014	--	Computer Science and Engineering
9	Engineering & Technology	PG	Digital Communications	2014	--	Electronics and Communication Engineering
10	Engineering & Technology	UG	Electrical & Electronics Engineering	2014	--	Electrical and Electronics Engineering
11	Engineering & Technology	UG	Electrical Engineering	2014	--	Electrical Engineering
12	Engineering & Technology	PG	Electrical Power Systems	2014	--	Electrical Engineering
13	Engineering & Technology	UG	Electronics & Communication Engineering	2014	--	Electronics and Communication Engineering
14	Engineering & Technology	UG	Electronics & Instrumentation Engineering	2014	--	Electronics and Instrumentation Engineering
15	Engineering & Technology	PG	Industrial Design	2014	--	Mechanical Engineering
16	Engineering & Technology	PG	Information Technology	2014	--	Information Technology
17	Engineering & Technology	UG	Information Technology	2014	--	Information Technology
18	Engineering & Technology	UG	Mechanical Engineering	2014	--	Mechanical Engineering
19	Engineering & Technology	UG	Mining Engineering	2014	--	Mining Engineering
20	Engineering & Technology	PG	Power Electronics	2014	--	Electrical Engineering
21	Engineering & Technology	PG	Software Engineering	2014	--	Computer Science and Engineering
22	Engineering & Technology	PG	Structural Design	2014	--	Civil Engineering
23	Engineering & Technology	PG	Thermal Engineering	2014	--	Mechanical Engineering
24	Engineering & Technology	PG	VLSI	2014	--	Electronics and Communication Engineering
25	Management	PG	Master of Business Administration	2014	--	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
Electronics and Communication Engineering	Yes	Electronics & Communication Engineering	UG
Computer Science and Engineering	Yes	Computer Science and 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 Instrumentation Engineering	Electronics & Instrumentation Engineering	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:

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	Electronics & Communication Engineering	UG	2014 / --	120	Yes	2023	60	2023	YES	Applying first time	--	--	0	4

Sanctioned Intake for Last Five Years for the Digital Communications	
Academic Year	**Sanctioned Intake**
2024-25	60
2023-24	60
2022-23	120
2021-22	120
2020-21	120
2019-20	120

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 ARROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROGRAM DURATION
1	Electronics and Instrumentation Engineering	Electronics & Instrumentation Engineering	UG	2014 / --	60	Yes	2023	30	2023	yes	Not eligible for accreditation	--	--	0	4

Sanctioned Intake for Last Five Years for the Electronics & Instrumentation Engineering	
Academic Year	**Sanctioned Intake**
2024-25	30
2023-24	30
2022-23	60
2021-22	60
2020-21	60
2019-20	60

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

A. Name of the HoD :	DR. VIJAY PRAKASH SINGH
B. Nature of appointment:	Regular
C. Qualification:	ME/M. Tech and PhD

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)	60	60	120	120	120	120	120
N1=Total no. of students admitted in the 1st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	55	57	109	110	110	110	108
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	11	9	20	21	19	18
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.	55	68	118	130	131	129	126

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)	60	0	0	91.67
2023-24 (CAYm1)	60	0	0	95.00
2022-23 (CAYm2)	120	0	0	90.83

Average [(ER1 + ER2 + ER3) / 3] = 92.50≅ 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).	141.00	139.00	138.00
B=No. of students who graduated from the program in the stipulated course duration	109.00	105.00	89.00
Success Rate (SR)= (B/A) * 100	77.30	75.54	64.49

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 72.44

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)	8.20	8.50	8.90
Y=Total no. of successful students	55.00	108.00	108.00
Z=Total no. of students appeared in the examination	57.00	109.00	110.00
API [X*(Y/Z)]	7.91	8.42	8.74

Average API[(AP1+AP2+AP3)/3] : 8.36

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 2rd year/10)	8.90	8.50	8.30
Y=Total no. of successful students	113.00	124.00	112.00
Z=Total no. of students appeared in the examination	117.00	128.00	116.00
API [X * (Y/Z)]	8.60	8.23	8.01

Average API [(AP1 + AP2 + AP3)/3] : 8.28

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)	9.10	8.80	8.50
Y=Total no. of successful students	120.00	110.00	108.00
Z=Total no. of students appeared in the examination	124.00	112.00	113.00
API [X*(Y/Z)]:	8.81	8.64	8.12

Average API [(AP1 + AP2 + AP3)/3] : 8.52

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	141.00	139.00	138.00
X=No. of students placed	95.00	95.00	98.00
Y=No. of students admitted to higher studies	25.00	30.00	25.00
Z= No. of students taking up entrepreneurship	20.00	10.00	12.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	99.29	97.12	97.83

Average Placement Index = (P_1 + P_2 + P_3)/3: 98.08 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	DEVENDRA PATLE	XXXXXXX40E	M.E/M.Tech	RGPV BHOPAL	ELECTRONICS AND COMMUNICATION	09/09/2009	15.5	Assistant Professor	Assistant Professor		Regular	Yes		No
2	Dr. MUKESH TIWARI	XXXXXXX67H	ME/M. Tech and PhD	RGPV BHOPAL M.P	DIGITAL COMMUNICATION	01/01/2002	23.1	Assistant Professor	Professor	01/03/2010	Regular	Yes		No
3	YOGAYATA SHRVASTAV	XXXXXXX82J	M.E/M.Tech	RGPV BHOPAL M.P	VLSI	14/07/2018	6.6	Assistant Professor	Assistant Professor		Regular	Yes		No
4	MOHAMMAD TAHA SHAIKH	XXXXXXX18B	M.E/M.Tech	POOJYA DODDAPA APPA COLLEGE OF ENGINEERING GULBARGA KA INDIA	COMMUNICATION SYSTEM	05/07/2018	6.6	Assistant Professor	Assistant Professor		Regular	Yes		No
5	PRIYANKA KUMARI	XXXXXXX05F	M.E/M.Tech	RGPV BHOPAL M.P	VLSI	05/07/2018	6.6	Assistant Professor	Assistant Professor		Regular	Yes		No
6	JASWANT JOSHI	XXXXXXX86N	M.E/M.Tech	RGPV BHOPAL M.P	ELECTRONICS AND COMMUNICATION	30/06/2015	9.6	Assistant Professor	Assistant Professor		Regular	Yes		No
7	SUDEEP KUMAR	XXXXXXX35L	M.E/M.Tech	RGPV BHOPAL	MICROELECTRONICS & VLSI DESIGN	02/07/2018	6.7	Assistant Professor	Assistant Professor		Regular	Yes		No
8	RAKESH KUMAR CHANDAN	XXXXXXX83F	M.E/M.Tech	RGPV BHOPAL	DIGITAL COMMUNICATION	11/11/2010	14.3	Assistant Professor	Assistant Professor		Regular	Yes		No
9	PRANAYYADAV	XXXXXXX35B	M.E/M.Tech	RGPV BHOAPL	DIGITAL COMMUNICATION	28/05/2014	10.9	Assistant Professor	Assistant Professor		Regular	Yes		No
10	RITESH SINGH	XXXXXXX75J	M.E/M.Tech	RGPV BHOPAL	ELECTRONICS AND COMMUNICATIONS ENGINEERING	18/01/2020	5	Assistant Professor	Assistant Professor		Regular	Yes		No
11	KULDEEP SAKYA	XXXXXXX79F	M.E/M.Tech	RGPV BHOPAL	DIGITAL COMMUNICATION	09/01/2020	5	Assistant Professor	Assistant Professor		Regular	Yes		No
12	JYOTSNA SAGAR	XXXXXXX09L	M.E/M.Tech	RGPV BHOPAL	ELECTRONICS AND COMMUNICATIONS ENGINEERING	11/06/2014	10.8	Assistant Professor	Assistant Professor		Regular	Yes		No
13	NITISH UPPADHYA	XXXXXXX72B	M.E/M.Tech	RGPV BHOPAL	ELECTRONICS AND COMMUNICATIONS ENGINEERING	28/05/2014	10.9	Assistant Professor	Assistant Professor		Regular	Yes		No
14	DR. MOHIT UPPADHYA	XXXXXXX18F	ME/M. Tech and PhD	RGPV BHOPAL	ELECTRONICS AND COMMUNICATIONS ENGINEERING	08/05/2018	6.9	Professor	Professor	18/05/2018	Regular	Yes		No
15	ANKIT PANDEY	XXXXXXX09D	M.E/M.Tech	RGPV BHOPAL	ELECTRONICS AND COMMUNICATIONS ENGINEERING	03/01/2022	3	Assistant Professor	Assistant Professor		Regular	Yes		No
16	RAM LAKHAN PRAJAPATI	XXXXXXX48P	M.E/M.Tech	RGPV BHOPAL	ELECTRONICS AND COMMUNICATIONS ENGINEERING	03/01/2022	3	Assistant Professor	Assistant Professor		Regular	Yes		No
17	Dr. AMAR SINGH RATHORE	XXXXXXX06H	ME/M. Tech and PhD	RGPV BHOPAL	ELECTRONICS AND COMMUNICATION	01/07/2020	4.7	Professor	Professor	01/07/2020	Regular	Yes		No
18	SAPNA RATHORE	XXXXXXX75Q	M.E/M.Tech	SSSUTMS SEHORE	DIGITAL COMMUNICATION	15/09/2020	4.4	Assistant Professor	Assistant Professor		Regular	Yes		No
19	ABHIJEET VIADHIYA	XXXXXXX11M	M.E/M.Tech	RGPV BHOPAL	DIGITAL COMMUNICATION	10/12/2020	4.1	Assistant Professor	Assistant Professor		Regular	Yes		No
20	VIBHA MALL	XXXXXXX72J	M.E/M.Tech	RGPV BHOPAL	DIGITAL COMMUNICATION	15/06/2018	6.7	Assistant Professor	Assistant Professor		Regular	Yes		No
21	SANTSHO GAJBHIYE	XXXXXXX63R	M.E/M.Tech	RGPV BHOPAL	ELECTRONICS AND COMMUNICATIONS ENGINEERING	07/05/2018	6.8	Assistant Professor	Assistant Professor		Regular	Yes		No
22	KHUSHBUBEN MAHESHWARI	XXXXXXX40A	M.E/M.Tech	RGPV BHOPAL	DIGITAL COMMUNICATION	10/12/2020	4.1	Assistant Professor	Assistant Professor		Regular	Yes		No
23	JAYA BHARTI	XXXXXXX54L	M.E/M.Tech	SSSUTMS SEHORE	VLSI	10/12/2020	4.1	Assistant Professor	Assistant Professor		Regular	Yes		No
24	DR. DEEPAK KOURAV	XXXXXXX85B	ME/M. Tech and PhD	DR. KN MODI UNIVERSITY	DIGITAL IMAGE PROCESSING	02/07/2018	6.7	Associate Professor	Associate Professor	02/07/2018	Regular	Yes		
25	DR. MOHD ALTAMASH SHEIKH	XXXXXXX79C	ME/M. Tech and PhD	GAUTAM BAUDDHA UNIVERSITY GR. NOIDA	DIGITAL COMMUNICATION	02/07/2018	6.7	Associate Professor	Associate Professor	02/07/2018	Regular	Yes		
26	DR. PRAVESH YADAV	XXXXXXX33B	ME/M. Tech and PhD	BUNDELKHAND UNIVERSITY	ELECTRONICS ENGINEERING	20/11/2018	6.3	Professor	Professor	20/11/2018	Regular	Yes		
27	DR. SALIM A CHAVAN	XXXXXXX76H	ME/M. Tech and PhD	SGB AMRAVATI UNIVERSITY	DIGITAL ELECTRONICS	02/07/2018	6.7	Professor	Professor	02/07/2018	Regular	Yes		
28	DR. VIJAY PRAKASH SINGH	XXXXXXX61D	ME/M. Tech and PhD	RGPV BHOPAL	ELECTRONICS AND COMMUNICATION	28/05/2014	10.9	Assistant Professor	Associate Professor	09/11/2021	Regular	Yes		Yes

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

Sr.No	Name of the Faculty	PAN No.	APAAR faculty ID*(if any)	Highest degree	University	Area of Specialization	Date of Joining in this Institution	Experience in years in current institute	Designation at Time Joining in this Institution	Present Designation	The date on which Designated as Professor/ Associate Professor if any	Nature of Association (Regular/ Contract/ Ad hoc)	Currently Associated (Y/N)	In case of NO, Date of Leaving	IS HOD?
1	DR. N B WAGHAYE	XXXXXXX71Q	NA	ME/M. Tech and PhD	MNIT BHOPAL	ELECTRICAL & INSTRUMENTATION	05/06/2018	6.9	Professor	Professor	05/06/2018	Regular	Yes		Yes
2	VILAS NAGADWANE	XXXXXXX50A	NA	M.E/M.Tech	SAIT VIDEISHA	ELECTRONICS & INSTRUMENTATION	07/09/2009	15.6	Assistant Professor	Assistant Professor		Regular	Yes		No
3	NITIN MEENA	XXXXXXX77B	NA	M.E/M.Tech		VLSI & EMBEDDED SYSTEM DESIGN	07/03/2014	11	Assistant Professor	Assistant Professor		Regular	Yes		No
4	UMESH GOUR	XXXXXXX84G	NA	M.E/M.Tech	RGPV BHOPAL	MICROELETRONICS AND vVLSI DESIGN	03/03/2014	11	Assistant Professor	Assistant Professor		Regular	Yes		No

5	DEEPANSHU GUPTA	XXXXXXX49H	NA	M.E/M.Tech	rgpv bhopal	digital communication	30/04/2014	10.10	Assistant Professor	Assistant Professor		Regular	Yes		No
6	AFSAR RAZA	XXXXXXX42G	NA	M.E/M.Tech	SSSUTM SEHORE	VLSI	16/07/2020	4.8	Assistant Professor	Assistant Professor		Regular	Yes		No
7	GARIMA TIWARI	XXXXXXX25J	NA	M.E/M.Tech	SSSUTM SEHORE	DIGITAL COMMUNICATION	15/05/2019	5.10	Assistant Professor	Assistant Professor		Regular	Yes		No
8	JITENDRA KUMAR TAMRKAR	XXXXXXX24K	NA	M.E/M.Tech	RGPV BHOPAL	POWER ELECTRONICS	28/05/2020	4.9	Assistant Professor	Assistant Professor		Regular	Yes		No
9	VINUS TYAGI	XXXXXXX35Q	NA	M.E/M.Tech	RGPV BHOPAL	VLSI	15/11/2018	6.4	Assistant Professor	Assistant Professor		Regular	Yes		No
10	ANKIT ROY	XXXXXXX06B	NA	M.E/M.Tech	MNIT BHOPAL	ELECTRICAL DRIVES	28/05/2014	10.9	Assistant Professor	Assistant Professor		Regular	Yes		No
11	DR. RAMANAD SINGH	XXXXXXX10A	NA	ME/M. Tech and PhD	AISECT UNIVERSITY BHOPAL	MICROWAVE ENGINEERING	16/05/2015	9.10	Assistant Professor	Associate Professor	31/12/2020	Regular	Yes		No

C2. Student-Faculty Ratio (SFR)

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

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

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

Description	CAY(2024-25)	CAYm1 (2023-24)	CAYm2 (2022-23)
UG1.B	66	132	132
UG1.C	132	132	132
UG1.D	132	132	132
UG1: Electronics & Communication Engineering	**330**	**396**	**396**
UG2.B	33	66	66
UG2.C	66	66	66
UG2.D	66	66	66
UG2: Electronics & Instrumentation Engineering	**165**	**198**	**198**
PG1.A	18	18	18
PG1.B	18	18	18
PG1: Digital Communications	**36**	**36**	**36**
PG2.A	18	18	18
PG2.B	18	18	18
PG2: VLSI	**36**	**36**	**36**
DS=Total no. of students in all UG and PG programs in the Department	402	468	468
AS=Total no. of students of all UG and PG programs in allied departments	165	198	198
S=Total no. of students in the Department (DS) and allied departments (AS)	**S1=** 567	**S2=** 666	**S3=** 666
DF=Total no. of faculty members in the Department	28	28	28
AF= Total no. of faculty members in the allied Departments	11	11	11
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	**F1=** 39	**F2=** 39	**F3=** 39
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= 14.54**	**SFR2= 17.08**	**SFR3= 17.08**
Average SFR for 3 years	**SFR= 16.23**		

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)	10	29	26.00	20.77
2023-24(CAYm1)	10	29	31.00	17.42
2022-23(CAYm2)	10	29	31.00	17.42

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
2024-25	2.00	6.00	5.00	4.00	17.00	29.00
2023-24	3.00	6.00	7.00	4.00	21.00	29.00
2022-23	3.00	6.00	7.00	4.00	21.00	29.00
Average	RF1=2.67	AF1=6.00	RF2=6.33	AF2=4.00	RF2=19.67	AF2=29.00

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)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	mr. PRANAYYADAV	Assistant Professor	SSSUTMS SEHORE	VLSI	24.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	SAPNA RATHORE	Assistant Professor	SSSUTMS SEHORE	DIGITAL COMMUNICATION	24.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	JAYA BHARTI	Assistant Professor	SSSUTMS SEHORE	ANALOG COMMUNICATION	24.00

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	20	15	10
2	No. of peer reviewed conference papers published	25	20	10
3	No. of books/book chapters published	5	5	5

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. MUKESH TIWARI	DR. VIJAY PRAKASH SINGH	ELECTRONICS AND COMMUNICATION	AICTE- FDP	AICTE	1 WEEK	3.00
DR. PRAVESH G YADAV	DR. DEEPAK KOURAV	ELECTRONICS AND COMMUNICATION	AICTE-STTP	AICTE	2 WEEK	3.50
DR. SALIM A CHAVAN	DR. MOHD ALTAMASH SHEIKH	ELECTRONICS AND COMMUNICATION	DST-NIMSAT	DST	2 WEEK	4.00
						Amount received (Rs.):10.50

(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. MUKESH TIWARI	DR. VIAY PRAKSH SINGH	ELECTRONICS AND COMMUNICATION	AICTE-STTP	AICTE	1 WEEK	3.00
DR. MOHIT UPPADHYA	DR. AMAR SINGH RATHORE	ELECTRONICS AND COMMUNICATION	DST	DST	1 WEEK	3.50
R. AMAR SINGH RATHORE	DR. VIAY PRAKSH SINGH	ELECTRONICS AND COMMUNICATION	AICTE	AICTE	2 WEEK	3.50
						Amount received (Rs.):10.00

(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
DR.MUKESH TIWARI	VIJAY PRASKAH SINGH	ELECTRONICS AND COMMUNICATION	DST-NIMSAT	DST	1 WEEK	3.50
DR. DEEPAK KOURAV	DR. PRAVESH G YADAV	ELECTRONICS AND COMMUNICATION	FDP	MPCST	2 WEEK	3.50
DR. PRAVESH G YADAV	VIJAY PRASKAH SINGH	ELECTRONICS AND COMMUNICATION	STTP	MPCST	2 WEEK	3.50
						Amount received (Rs.):10.50

Total Amount (Lacs) Received for the Past 3 Years: 31.00

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
DR. MUKESH TIWARI	DR. VIJAY PRAKSH SINGH	ELECTRONICS AND COMMUNICATION	Tata Consultancy Services Ltd.	TCS	1 YEAR	3.50
DR. PRAVESH G YADAV	DR. DEEPAK KOURAV	ELECTRONICS AND COMMUNICATION	HEG SOLAR PLANT	HEG MANDIDEEP	2 YEAR	4.50
						Amount received (Rs.):8.00

(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. MUKESH TIWARI	DR. VIJAY PRAKSH SINGH	ELECTRONICS AND COMMUNICATION	NSE IT Limited	NSE IT Limited	1 YEAR	3.20
DR. AMAR SINGH RATHORE	DR. VIJAY PRAKSH SINGH	ELECTRONICS AND COMMUNICATION	OPTICAL LAB	OPTEL COMMUNICATION BHOPAL	1 YEAR	3.50
						Amount received (Rs.):6.70

(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. MUKESH TIWARI	VIJAY PRAKSH SINGH	ELECTRONICS AND COMMUNICATION	T Limited	T Limited	1 YEAR	3.80
DR. MOHIT UPPADHYA	DR. PRAVESH G YADAV	ELECTRONICS AND COMMUNICATION	TCS LIMITED	TCS	1 YEAR	3.50
						Amount received (Rs.):7.30

Total amount (Lacs) received for the past 3 years: 22.00

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)

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. SANTOSH KUMAR RAI	Development of the high temperature 3d printer	1 YEAR	7.70	5.70	Printing Complex Geometries
			Amount received (Rs.): 7.70		

(CAYm2)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
DR. MUKESH TIWARI	OT based advanced waste management system for smart sustainable cities	1 YAER	5.50	3.50	
			Amount received (Rs.): 5.50		

(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. MUKESH TIWARI	Health monitoring mask	1 YEAR	2.20	1.20	Public Health Applications:
			Amount received (Rs.): 2.20		

Total amount (Lacs) received for the past 3 years : 15.40

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	Analog to Digital Communication Lab	30	Anolog to Digital Converter Trainer,Balance Modulator/Demodulator,Delta Adaptive Delta Sigma	3 hours/week	Mr. JITENDRA JAISWAL	Lab Assistant	DIPLOMA
2	Optical fibre communication lab	25	Fiber Optics Trainer FM Transmitter Receiver Trainer Frequency Modulator / Demodulator Function Pulse	3 hours/week	Mr. Rajendra Prasad Sahu	Lab Assistant	DIPLOMA
3	CNTL & Radar Lab	25	Active Filters Attenuator Band pass filter Band reject filter B/W TV B/W TV Receiver Bread Board Trainer & Designer	3 hours/week	Ms. NEHA DHIMAN	Lab Assistant	DIPLOMA
4	Electronics Devices and Circuit Laboratory	30	Audio Power Amp (CA810) Breadboard/Breadboard Trainer & Design Diode and Zener diode characteristics Electrical	3 hours/week	Mr. VINOD PARMAR	Lab Assistant	DIPLOMA
5	Antenna & Microwave lab.	30	Antenna Band(Microwave Bench) Antenna Kit(Antennas) Antenna Trainer Function generator Gunn Power Supply	3 hours/week	Mr. VIPIN SHARMA	Lab Assistant	DIPLOMA
6	Basic Electrical And Electronics Lab	25	Ammeter DC Transformer Single phase 3- Phase 4 Wire Watt Hour Meter Voltmeter AC/ DC Multimeter Voltmeter DC	3 hours/week	Mr. SHASHIKANT PAWAR	Lab Assistant	DIPLOMA
7	Electrical Instrumentation Laboratory	30	Lvdt Trainer Kit Digital temperature indicator Angular Displacement Trainer Kit Displacement Study Trainer Kit	3 hours/week	Mr. SURENDRA SINGH	Lab Assistant	DIPLOMA
8	control system Laboratory	30	Type 2 Control System Kit	3 hours/week	Mr. KIRPAL PRASAD	Lab Assistant	DIPLOMA
9	Electrical Circuit Analysis lab/Network Analysis Lab	25	LCR Resonance Ckt. Thevenin's Theorem Maximum Power Transfer Theorem Kit Millmans Theorem Kit Superposition	2 hours/week	Miss ABHILASHA VERMA	Lab Assistant	DIPLOMA
10	Power Electronics laboratory	30	MOSFET Characteristics FET characteristic UJT Characteristic and relaxtion oscillator	2 hours/week	Ms. HARISH kumar BUNK	Lab Assistant	DIPLOMA
11	Project lab	30	bread board ,soldering rod ,desk top with internetand other required instruments	2 hours/week	Mr. ANUP KUMAR	Lab Assistant	DIPLOMA
12	Simulation Lab	20	Sci Lab ,PSPICE ,MATLAB	2 hours/week	Mr. PREM kumar GARG	Lab Assistant	BCA

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Analog to Digital Communication Lab	First aid kit. All the experiment benches are supplied power through a voltage stabilizer. Dry type fire extinguisher. Guidelines and instructions are displayed in the laboratory Electrical earthing is well maintained. Power supply terminals connected to any circuit are energized with the presence of the instructor or lab staff. Emergency power shutdown facility provided. Students are instructed to wear apron & shoes
2	Optical fibre communication lab	"First aid kit. All the experiment benches are supplied power through a voltage stabilizer. Dry type fire extinguisher. Guidelines and instructions are displayed in the laboratory Electrical earthing is well maintained. Power supply terminals connected to any circuit are energized with the presence of the instructor or lab staff. Emergency power shutdown facility provided. Students are instructed to wear apron & shoes "
3	CNTL & Radar Lab	"First aid kit. All the experiment benches are supplied power through a voltage stabilizer. Dry type fire extinguisher. Guidelines and instructions are displayed in the laboratory Electrical earthing is well maintained. Power supply terminals connected to any circuit are energized with the presence of the instructor or lab staff. Emergency power shutdown facility provided. Students are instructed to wear apron & shoes "
4	Electronics Devices and Circuit Laboratory	"First aid kit. All the experiment benches are supplied power through a voltage stabilizer. Dry type fire extinguisher. Guidelines and instructions are displayed in the laboratory Electrical earthing is well maintained. Power supply terminals connected to any circuit are energized with the presence of the instructor or lab staff. Emergency power shutdown facility provided. Students are instructed to wear apron & shoes "
5	Antenna & Microwave lab.	"First aid kit. All the experiment benches are supplied power through a voltage stabilizer. Dry type fire extinguisher. Guidelines and instructions are displayed in the laboratory Electrical earthing is well maintained. Power supply terminals connected to any circuit are energized with the presence of the instructor or lab staff. Emergency power shutdown facility provided. Students are instructed to wear apron & shoes
6	Basic Electrical And Electronics Lab	"First aid kit. All the experiment benches are supplied power through a voltage stabilizer. Dry type fire extinguisher. Guidelines and instructions are displayed in the laboratory Electrical earthing is well maintained. Power supply terminals connected to any circuit are energized with the presence of the instructor or lab staff. Emergency power shutdown facility provided. Students are instructed to wear apron & shoes
7	Electrical Instrumentation Laboratory	"First aid kit. All the experiment benches are supplied power through a voltage stabilizer. Dry type fire extinguisher. Guidelines and instructions are displayed in the laboratory Electrical earthing is well maintained. Power supply terminals connected to any circuit are energized with the presence of the instructor or lab staff. Emergency power shutdown facility provided. Students are instructed to wear apron & shoes
8	control system Laboratory	"First aid kit. All the experiment benches are supplied power through a voltage stabilizer. Dry type fire extinguisher. Guidelines and instructions are displayed in the laboratory Electrical earthing is well maintained. Power supply terminals connected to any circuit are energized with the presence of the instructor or lab staff. Emergency power shutdown facility provided. Students are instructed to wear apron & shoes
9	Electrical Circuit Analysis lab/Network Analysis Lab	"First aid kit. All the experiment benches are supplied power through a voltage stabilizer. Dry type fire extinguisher. Guidelines and instructions are displayed in the laboratory Electrical earthing is well maintained. Power supply terminals connected to any circuit are energized with the presence of the instructor or lab staff. Emergency power shutdown facility provided. Students are instructed to wear apron & shoes "
10	Power Electronics laboratory	"First aid kit. All the experiment benches are supplied power through a voltage stabilizer. Dry type fire extinguisher. Guidelines and instructions are displayed in the laboratory Electrical earthing is well maintained. Power supply terminals connected to any circuit are energized with the presence of the instructor or lab staff. Emergency power shutdown facility provided. Students are instructed to wear apron & shoes "

11	Project lab	"First aid kit. All the experiment benches are supplied power through a voltage stabilizer. Dry type fire extinguisher. Guidelines and instructions are displayed in the laboratory Electrical earthing is well maintained. Power supply terminals connected to any circuit are energized with the presence of the instructor or lab staff. Emergency power shutdown facility provided. Students are instructed to wear apron & shoes "
12	Simulation Lab	"First aid kit. Guidelines and instructions are displayed in the laboratory Power supply terminals connected to any circuit are energized with the presence of the instructor or lab staff. "

D3. Project Laboratory/Research Laboratory

S.N.	Name of the Laboratory
1.	Incubation Center (Advanced PCB Fabrication ,Embedded Systems & IoT
2	Advance Research Lab
3	Hi-Tech Library

The Incubation Center has a key role in promoting practical learning experience with the utilization of available resources, a place where they develop creative projects, and execute their final projects.

· Main purpose of **Incubation Center** is to offer access to mentorship, funding, networking opportunities, for **Startups, Skill Development & Best Practices.**

· **Advance Research Lab** laboratories are utilized by students, and Faculty members for their projects and research activities.

- Hi-Tech Library –To Provide a digital library with access to e-books, online articles, and databases **IIT & NPTEL Video Lectures:** On-demand access to SCI, ***IEEE leading journals, transactions, letters, and magazines***

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)	120	6	0	18	60
2023-24(CAYm1)	60	3	0	18	120
2024-25(CAY)	60	3	0	18	120

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	200000	1500000	200000	1500000	50000000	45000000	36550000	35000000
Library	500000	450000	500000	450000	500000	500000	500000	500000
Laboratory equipment	900000	800000	900000	800000	12000000	1100000	3600000	1100000
Teaching and non-teaching staff salary	180000000	158000000	210000000	190000000	200000000	195000000	195000000	165000000
Outreach Programs	200000	180000	200000	180000	5000000	4500000	5000000	4500000
R&D	1500000	1400000	1500000	1400000	1500000	1400000	7000000	1400000
Training, Placement and Industry linkage	5000000	450000	5000000	450000	5000000	450000	5000000	450000
SDGs	700000	650000	700000	650000	8000000	650000	8000000	650000
Entrepreneurship	500000	450000	500000	450000	5000000	450000	10000000	450000
Others, specify	3000000	250000	3000000	250000	3000000	250000	3000000	250000
Total	**192500000**	**164130000**	**222500000**	**196130000**	**290000000**	**249300000**	**273650000**	**209300000**

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	500000	230000	800000	700000	500000	400000	100000	50000
Software	300000	200000	500000	460000	300000	200000	100000	50000
SDGs	100000	90000	100000	90000	100000	90000	50000	40000
Support for faculty development	200000	150000	200000	190000	200000	183000	100000	60000
R & D	300000	250000	300000	280000	300000	247000	100000	60000
Industrial Training, Industry expert, Internship	100000	80000	100000	80000	100000	80000	50000	40000
Miscellaneous Expenses*	50000	40000	50000	30000	50000	30000	50000	25000
Total	**1550000**	**1040000**	**2050000**	**1830000**	**1550000**	**1230000**	**550000**	**325000**