

## NATIONAL BOARD OF ACCREDITATION

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

<b>Program Name :</b> Information Technology	<b>Discipline:</b> Engineering & Technology
<b>Level :</b> Under Graduate	<b>Tier:</b> 1
<b>Application No:</b> 10572	<b>Date of Submission:</b> 23-04-2025

### PART A- Profile of the Institute

<b>A1.Name of the Institute:</b> PRASAD V. POTLURI SIDDHARTHA INSTITUTE OF TECHNOLOGY	
Year of Establishment : 1998	Location of the Institute: Lat 16.4877°, Long 80.6941°
<b>A2. Institute Address:</b> VASANTHA NAGAR -POST KANURU	
City:VIJAYAWADA	State:Andhra Pradesh
Pin Code:520007	Website:www.pvpsiddhartha.ac.in
Email:PRINCIPAL@PVPSIDDHARTHA.AC.IN	Phone No(with STD Code):0866-2581699
<b>A3. Name and Address of the Affiliating University (if any):</b>	
Name of the University : JNTU KAKINADA	City: east Godavari
State : Andhra Pradesh	Pin Code: 533003
<b>A4. Type of the Institution:</b> Self-Supported Institute	
<b>A5. Ownership Status:</b> Self financing	

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

- No. of UG programs: 8
- No. of PG programs: 3

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

Sr.No.	Discipline	Level of program	Name of the program	Year of Start	Year of Closed	Name of The Department
1	Engineering & Technology	UG	Civil Engineering	2008	--	Civil Engineering
2	Engineering & Technology	UG	Computer Science and Engineering	1999	--	Computer Science and Engineering
3	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	2022	--	Computer Science and Engineering (Artificial Intelligence and Machine Learning)
4	Engineering & Technology	UG	Computer Science and Engineering (Data Science)	2022	--	Computer Science and Engineering (Artificial Intelligence and Machine Learning)
5	Engineering & Technology	UG	Electrical and Electronics Engineering	2001	--	Electrical and Electronics Engineering
6	Engineering & Technology	UG	Electronics & Communication Engineering	2000	--	Electronics and Communication Engineering
7	Engineering & Technology	UG	Information Technology	1998	--	Information Technology

8	Engineering & Technology	PG	Machine Design	2008	--	Mechanical Engineering
9	Engineering & Technology	UG	Mechanical Engineering	1998	--	Mechanical Engineering
10	Engineering & Technology	PG	Microwave & Communication Engineering	2010	--	Electronics and Communication Engineering
11	Management	PG	Master of Business Administration	2008	--	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
Computer Science and Engineering	Yes	Computer Science and Engineering	UG
Information Technology	Yes	Information Technology	UG
Electronics and Communication Engineering	No	Electronics & Communication Engineering	UG
Electrical and Electronics Engineering	No	Electrical and Electronics Engineering	UG
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
Computer Science and Engineering	Computer Science and Engineering	UG
Computer Science and Engineering (Artificial Intelligence and Machine Learning)	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	UG
Computer Science and Engineering (Artificial Intelligence and Machine Learning)	Computer Science and Engineering (Data Science)	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
1	Information Technology	UG	1998 / --	40	Yes	2012	120	2012	SC/1-688473556/2012/EOA dated 10-05-2012	Granted accreditation for 3 years for the period (specify period)	2022	2025	5

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
<b>Sanctioned Intake for Last Five Years for the Information Technology</b>													
Academic Year		Sanctioned Intake											
2024-25				120									
2023-24				120									
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
1	Computer Science and Engineering	Computer Science and Engineering	UG	1999 / --	40	Yes	2024	240	2024	South -central/1-43662543028/ 2024/EOA Dt:08-05-2024	Granted accreditation for 3 years for the period (specify period)	2022	2025

<b>Sanctioned Intake for Last Five Years for the Computer Science and Engineering</b>													
Academic Year		Sanctioned Intake											
2024-25					240								
2023-24					180								
2022-23					180								
2021-22					180								
2020-21					180								
2019-20					180								

2	Computer Science and Engineering (Artificial Intelligence and Machine Learning)	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	UG	2022 / --	60	No	NA	60	2022	F.No. South-Central/1-10973783567/2022/EOA; dated 7.7.2022	Not eligible for accreditation	--	--
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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
3	Computer Science and Engineering (Artificial Intelligence and Machine Learning)	Computer Science and Engineering (Data Science)	UG	2022 / --	60	No	NA	60	2022	F.No. South-Central/1-10973783567/2022/EOA; dated 7.7.2022	Not eligible for accreditation	--	--

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

A. Name of the HoD :	Dr. B.V Subba Rao
B. Nature of appointment:	Regular
C. Qualification:	Ph.D

**B3. Program Details**

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

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2024-25 (CAY)	2023-24 (CAYm1)	2022-23 (CAYm2)	2021-22 (CAYm3)	2020-21 (CAYm4)	2019-20 (CAYm5)	2018-19 (CAYm6)
N=Sanctioned intake of the program (as per AICTE /Competent authority)	120	120	120	120	120	120	120
N1=Total no. of students admitted in the 1st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	120	119	119	116	120	120	120
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	13	12	12	12	12	12
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	12	12	12	12	8	8	0
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	132	144	143	140	140	140	132

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)	120	12	0	110.00

2023-24 (CAYm1)	120	12	0	109.17
2022-23 (CAYm2)	120	12	0	109.17

Average [ (ER1 + ER2 + ER3) / 3 ] = 109.45 ≈ 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	(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).	140.00	140.00	132.00
B=No. of students who graduated from the program in the stipulated course duration	131.00	138.00	130.00
Success Rate (SR)=(B/A) * 100	93.57	98.57	98.48

Average SR of three batches ((SR\_1+ SR\_2+ SR\_3)/3): 96.87

#### 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 )
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)	7.08	7.73	7.94
Y=Total no. of successful students	129.00	131.00	125.00
Z=Total no. of students appeared in the examination	129.00	131.00	125.00
API [ X*(Y/Z) ]	7.08	7.73	7.94

Average API[ (AP1+AP2+AP3)/3 ] : 7.58

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

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

Academic Performance	CAYm1 ( 2023-24 )	CAYm2 ( 2022-23 )	CAYm3 ( 2021-22 )
X=(Mean of 2nd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2nd year/10)	7.50	7.76	7.75
Y=Total no. of successful students	143.00	140.00	140.00
Z=Total no. of students appeared in the examination	143.00	137.00	140.00
API [ X * (Y/Z) ]	7.50	7.93	7.75

Average API [ (AP1 + AP2 + AP3)/3 ] : 7.73

#### 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)	8.08	7.99	7.99
Y=Total no. of successful students	139.00	140.00	140.00
Z=Total no. of students appeared in the examination	140.00	140.00	140.00
API [ X*(Y/Z) ]:	8.02	7.99	7.99

Average API [ (AP1 + AP2 + AP3)/3 ] : 8.00

**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	140.00	140.00	132.00
X=No. of students placed	116.00	112.00	112.00
Y=No. of students admitted to higher studies	9.00	12.00	8.00
Z=Total no. of students appeared in the examination	0.00	0.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	89.29	88.57	90.91

Average Placement Index = (P\_1 + P\_2 + P\_3)/3: 89.59 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	Dr. B.V Subba Rao	XXXXXXXX51E	Ph.D	Acharya Nagarjuna University	Computer Science and Engineering	03/12/2004	20.4	Assistant Professor	Professor	21/10/2011	Regular	Yes		Yes
2	Dr B.Tirapathi Reddy	XXXXXXXX56D	Ph.D	Acharya Nagarjuna University	Computer Science and Engineering	01/03/2023	1.3	Professor	Professor	01/03/2023	Regular	No	22/06/2024	No
3	Dr. A.Haritha	XXXXXXXX01F	Ph.D	KL University	Computer Science and Engineering	23/06/2008	16.9	Assistant Professor	Associate Professor	03/07/2018	Regular	Yes		No
4	Dr.D.Kavitha	XXXXXXXX31L	Ph.D	JNTUK Kakinada	Computer Science and Engineering	03/12/2004	20.4	Assistant Professor	Associate Professor	25/04/2023	Regular	Yes		No
5	Dr. Y.Suresh	XXXXXXXX77D	Ph.D	Acharya Nagarjuna University	Computer Science and Engineering	08/08/2008	16.8	Assistant Professor	Associate Professor	25/04/2023	Regular	Yes		No
6	Dr. S.Sai Kumar	XXXXXXXX65D	Ph.D	Krishna University	Computer Science and Engineering	26/11/2010	14.4	Assistant Professor	Assistant Professor		Regular	Yes		No
7	Dr. K. Pavan Kumar	XXXXXXXX94H	Ph.D	Acharya Nagarjuna University	Computer Science and Engineering	11/08/2008	16.8	Assistant Professor	Assistant Professor		Regular	Yes		No

8	Dr. J.Sirisha	XXXXXXX44K	Ph.D	Krishna University	Computer Science and Engineering	02/07/2004	20.9	Assistant Professor	Assistant Professor		Regular	Yes		No
9	Dr. G.Reshma	XXXXXXX81B	Ph.D	Acharya Nagarjuna University	Computer Science and Engineering	21/06/2006	18.9	Assistant Professor	Assistant Professor		Regular	Yes		No
10	Dr. G. Lakshmi	XXXXXXX13A	Ph.D	Acharya Nagarjuna University	Computer Science and Engineering	12/07/2010	14.9	Assistant Professor	Assistant Professor		Regular	Yes		No
11	Ms. K.Swarupa Rani	XXXXXXX86K	M.E/M.Tech	JNTU Hyderabad	Computer Science and Engineering	10/06/2011	13.10	Assistant Professor	Assistant Professor		Regular	Yes		No
12	Mr.P.Ravi Prakash	XXXXXXX70L	M.E/M.Tech	Acharya Nagarjuna University	Computer Science and Engineering	18/08/2011	13.7	Assistant Professor	Assistant Professor		Regular	Yes		No
13	Dr Y.Padma	XXXXXXX67N	Ph.D	Krishna University	Computer Science and Engineering	10/11/2011	13.5	Assistant Professor	Assistant Professor		Regular	Yes		No
14	Ms. K Srivijaya	XXXXXXX76N	M.E/M.Tech	Andhra University	Computer Science and Technology	30/05/2012	12.10	Assistant Professor	Assistant Professor		Regular	Yes		No
15	Ms. D. Leela Dharani	XXXXXXX89N	M.E/M.Tech	JNTUK Kakinada	Computer Science and Engineering	03/06/2013	11.10	Assistant Professor	Assistant Professor		Regular	Yes		No
16	Mr .IMV Krishna	XXXXXXX19G	M.E/M.Tech	Acharya Nagarjuna University	Computer Science and Engineering	20/06/2008	16.9	Assistant Professor	Assistant Professor		Regular	Yes		No
17	Mr. Ch.Chandra Mohan	XXXXXXX17H	M.E/M.Tech	JNTUK Kakinada	Software Engineering	31/05/2012	12.10	Assistant Professor	Assistant Professor		Regular	Yes		No
18	Mr. Ch.Praneeth	XXXXXXX44N	M.E/M.Tech	Acharya Nagarjuna University	Computer Science and Engineering	28/08/2020	4.7	Assistant Professor	Assistant Professor		Regular	Yes		No
19	Ms. V.Rashmi	XXXXXXX86J	M.E/M.Tech	JNTUK Kakinada	Computer Science and Engineering	01/04/2021	4	Assistant Professor	Assistant Professor		Regular	Yes		No
20	Dr. V.Siva Parvathi	XXXXXXX81M	Ph.D	Andhra University	Computer Science and Engineering	16/10/2007	17.5	Assistant Professor	Assistant Professor		Regular	Yes		No
21	Mr D.Srinivasa Rao	XXXXXXX54P	M.E/M.Tech	JNTUK Kakinada	Computer Science and Engineering	05/05/2022	1	Assistant Professor	Assistant Professor		Regular	No	25/05/2023	No
22	Mr.D.Bharadwaja	XXXXXXX58B	M.E/M.Tech	JNTUK Kakinada	Computer Science and Engineering	15/06/2022	2.9	Assistant Professor	Assistant Professor		Regular	Yes		No

23	Mr. B.V Satish Babu	XXXXXXX49E	M.E/M.Tech	Acharya Nagarjuna University	Computer Science and Engineering	15/06/2022	2.9	Assistant Professor	Assistant Professor		Regular	Yes		No
24	Ms. P.Rajya Lakshmi	XXXXXXX95L	M.E/M.Tech	JNTUK Kakinada	Computer Science and Engineering	27/02/2023	2.1	Assistant Professor	Assistant Professor		Regular	Yes		No

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.B.Janakiramaiah	XXXXXXX98R	XXXXXXXXX956	Ph.D	JNTUK Kakinada	Computer Science and Engineering	08/06/2017	7.10	Professor	Professor	08/06/2017	Regular	Yes		No
2	Ms.P.Sujatha	XXXXXXX07R	XXXXXXXXX607	M.E/M.Tech	JNTUK Kakinada	Computer Science and Engineering	01/08/2023	1.8	Assistant Professor	Assistant Professor		Regular	Yes		No
3	Mr.G.Venkata Krishna	XXXXXXX01J	XXXXXXXXX323	M.E/M.Tech	IIT Kharagpur	Computer Science and Data Processing	23/08/2023	1.7	Assistant Professor	Assistant Professor		Regular	Yes		No
4	Mr.K.S.S. Narayana	XXXXXXX92G	XXXXXXXXX974	M.E/M.Tech	Acharya Nagarjuna University	Computer Science and Engineering	24/05/2024	0.10	Assistant Professor	Assistant Professor		Regular	Yes		No
5	Mr.B.Kalyan Chakravarthy	XXXXXXX71B	XXXXXXXXX543	M.E/M.Tech	Acharya Nagarjuna University	Computer Science and Engineering	24/05/2024	0.10	Assistant Professor	Assistant Professor		Regular	Yes		No
6	Mrs T Deepa	XXXXXXX30G	XXXXXXXXX073	M.E/M.Tech	JNTU Anantapur	Computer Science and Engineering	24/06/2024	0.9	Assistant Professor	Assistant Professor		Regular	Yes		No
7	Ms Gayatri Gamini		XXXXXXXXX658	M.E/M.Tech	IIITDMJ	Computer Science and Engineering - Data Science	29/07/2024	0.8	Assistant Professor	Assistant Professor		Regular	Yes		No
8	Ms. N Susmitha	XXXXXXX36B	XXXXXXXXX961	M.E/M.Tech	JNTUK Kakinada	Data Science	30/07/2024	0.8	Assistant Professor	Assistant Professor		Regular	Yes		No
9	Mr. Ch.Naresh	XXXXXXX95N	NA	M.E/M.Tech	JNTUK Kakinada	Computer Science and Engineering	15/10/2022	1.7	Assistant Professor	Assistant Professor		Regular	No	14/06/2024	No
10	Ms.R.Padmaja	XXXXXXX44J	NA	M.E/M.Tech	JNTUK Kakinada	Computer Science and Engineering	02/05/2023	1.1	Assistant Professor	Assistant Professor		Regular	No	14/06/2024	No

11	Ms.M.Susmitha	XXXXXXX62A	NA	M.E/M.Tech	Bharatiyar University	Computer Science and Engineering	17/08/2023	1.2	Assistant Professor	Assistant Professor		Regular	No	31/10/2024	No
12	Mrs P.Hema Venkata Ramana	XXXXXXX29R	XXXXXXXXX308	M.E/M.Tech	JNTUK Kakinada	Computer Science and Engineering	15/09/2022	2.6	Assistant Professor	Assistant Professor		Regular	Yes		No
13	Mrs P Nagamani	XXXXXXX94J	XXXXXXXXX402	M.E/M.Tech	JNTUK Kakinada	Computer Science and Engineering	15/05/2023	1.10	Assistant Professor	Assistant Professor		Regular	Yes		No
14	Mr.M Winson	XXXXXXX59E	XXXXXXXXX797	M.E/M.Tech	JNTUK Kakinada	Computer Science and Engineering	21/08/2023	1.7	Assistant Professor	Assistant Professor		Regular	Yes		No
15	Mrs Sravanam Sreeja	XXXXXXX57M	XXXXXXXXX775	M.E/M.Tech	JNTUK Kakinada	Computer Science and Engineering	19/03/2024	1	Assistant Professor	Assistant Professor		Regular	Yes		No
16	Ms Ch Mounika	XXXXXXX23L	XXXXXXXXX110	M.E/M.Tech	JNTUK Kakinada	Computer Science and Engineering	17/05/2024	0.10	Assistant Professor	Assistant Professor		Regular	Yes		No
17	Mrs G Pavani	XXXXXXX36P	XXXXXXXXX598	M.E/M.Tech	JNTUK Kakinada	Computer Science and Engineering	27/05/2024	0.10	Assistant Professor	Assistant Professor		Regular	Yes		No
18	Mrs M.Sri Lakshmi Vani	XXXXXXX42B	XXXXXXXXX630	M.E/M.Tech	JNTUK Kakinada	Computer Science and Engineering	21/06/2024	0.9	Assistant Professor	Assistant Professor		Regular	Yes		No
19	Mrs Hafeena Mohammad	XXXXXXX59J	XXXXXXXXX214	M.E/M.Tech	JNTUK Kakinada	Computer Science and Engineering	06/07/2024	0.9	Assistant Professor	Assistant Professor		Regular	Yes		No
20	Mr K.Chiranjeevi	XXXXXXX23H	NA	M.E/M.Tech	JNTUK Kakinada	Computer Science and Engineering	15/06/2023	1	Assistant Professor	Assistant Professor		Regular	No	14/06/2024	No
21	Dr B Raj Kumar	XXXXXXX81H	NA	M.E/M.Tech	VIT AP University	Computer Science and Engineering	30/09/2022	0.9	Assistant Professor	Assistant Professor		Regular	No	22/07/2023	No
22	Dr. A. Jaya Lakshmi	XXXXXXX83C	XXXXXXXXX329	Ph.D	Acharya Nagarjuna University	Computer Science and Engineering	22/04/2019	5.11	Professor	Professor		Regular	Yes		No
23	Dr. M. V. Rama Krishna	XXXXXXX51P	XXXXXXXXX736	Ph.D	Acharya Nagarjuna University	Computer Science and Engineering	06/07/2001	23.9	Associate Professor	Professor	23/08/2006	Regular	Yes		No
24	Dr .S. Madhavi	XXXXXXX05N	XXXXXXXXX262	Ph.D	Acharya Nagarjuna University	Computer Science and Engineering	01/07/2005	19.9	Assistant Professor	Professor	01/12/2011	Regular	Yes		No
25	Dr. P. Sai Kiran	XXXXXXX33L	XXXXXXXXX776	Ph.D	JNTU Hyderabad	Computer Science and Engineering	09/06/2022	2.10	Professor	Professor	09/06/2022	Regular	Yes		No

26	Dr. K. KoteswaraRao	XXXXXXXX72R	XXXXXXXXX079	Ph.D	JNTUK Kakinada	Computer Science and Engineering	08/06/2018	6.10	Associate Professor	Associate Professor	08/06/2018	Regular	Yes		No
27	Dr .P.Naga Srinivasu	XXXXXXXX34L	NA	Ph.D	Gitam Deemed to be University	Computer Science and Engineering	01/07/2022	1.11	Associate Professor	Associate Professor	01/07/2022	Regular	No	10/06/2024	No
28	Dr. R.Daniel	XXXXXXXX38J	XXXXXXXXX070	Ph.D	JNTUK Kakinada	Computer Science and Engineering	01/08/2022	2.8	Associate Professor	Associate Professor	01/08/2022	Regular	Yes		No
29	Dr B N.Swamy	XXXXXXXX02H	XXXXXXXXX250	Ph.D	Andhra University	Computer Science and Engineering	06/07/2005	19.9	Assistant Professor	Associate Professor	07/04/2023	Regular	Yes		No
30	Dr.S.Phani Praveen	XXXXXXXX61A	XXXXXXXXX011	Ph.D	Bharatiyar University	Computer Science and Engineering	23/05/2012	12.10	Assistant Professor	Associate Professor	07/04/2023	Regular	Yes		No
31	Dr A Ramana Lakshmi	XXXXXXXX20A	XXXXXXXXX456	Ph.D	Andhra University	Computer Science and Engineering	19/06/2004	20.9	Assistant Professor	Associate Professor	30/08/2006	Regular	Yes		No
32	Dr.J.Rama Devi	XXXXXXXX37A	XXXXXXXXX309	Ph.D	Gitam Deemed to be University	Computer Science and Engineering	21/06/2006	18.9	Assistant Professor	Assistant Professor		Regular	Yes		No
33	Dr..G.LalithaKumari	XXXXXXXX18A	XXXXXXXXX495	Ph.D	Acharya Nagarjuna University	Computer Science and Engineering	28/02/2005	20.1	Assistant Professor	Assistant Professor		Regular	Yes		No
34	Dr.B.Lakshmi Ramani	XXXXXXXX49C	NA	Ph.D	Gitam Deemed to be University	Computer Science and Engineering	20/06/2008	14.11	Assistant Professor	Assistant Professor		Regular	No	31/05/2023	No
35	Dr.D.Swapna	XXXXXXXX61P	XXXXXXXXX457	Ph.D	Gitam Deemed to be University	Computer Science and Engineering	10/10/2008	16.6	Assistant Professor	Assistant Professor		Regular	Yes		No
36	Dr.K.Vijaya Kumar	XXXXXXXX40B	NA	Ph.D	VIT AP University	Computer Science and Engineering	15/06/2009	14	Assistant Professor	Assistant Professor		Regular	No	30/06/2023	No
37	Dr. M.Sailaja	XXXXXXXX06J	XXXXXXXXX167	Ph.D	Acharya Nagarjuna University	Computer Science and Engineering	17/06/2009	15.9	Assistant Professor	Assistant Professor		Regular	Yes		No
38	Ms.Y.Surekha	XXXXXXXX60E	XXXXXXXXX761	M.E/M.Tech	Acharya Nagarjuna University	Computer Science and Engineering	07/10/2009	15.6	Assistant Professor	Assistant Professor		Regular	Yes		No
39	Ms.D.Sree Lakshmi	XXXXXXXX37Q	XXXXXXXXX819	M.E/M.Tech	Acharya Nagarjuna University	Computer Science and Engineering	02/01/2010	15.3	Assistant Professor	Assistant Professor		Regular	Yes		No

40	Ms T. Sri Lakshmi	XXXXXXX69Q	XXXXXXXXX885	M.E/M.Tech	Acharya Nagarjuna University	Computer Science and Engineering	17/03/2010	15	Assistant Professor	Assistant Professor		Regular	Yes		No
41	Dr.N.V.Ramana Gupta	XXXXXXX49H	NA	Ph.D	Acharya Nagarjuna University	Computer Science and Engineering	15/11/2010	13.11	Assistant Professor	Assistant Professor		Regular	No	01/11/2024	No
42	Ms.A.Madhuri	XXXXXXX80L	XXXXXXXXX619	M.E/M.Tech	JNTUK Kakinada	Computer Science and Engineering	17/01/2011	14.2	Assistant Professor	Assistant Professor		Regular	Yes		No
43	Mr.P.Anil Kumar	XXXXXXX17F	XXXXXXXXX817	M.E/M.Tech	JNTUK Kakinada	Software Engineering	23/05/2012	12.10	Assistant Professor	Assistant Professor		Regular	Yes		No
44	Mr.B.Vishnu vardhan	XXXXXXX28C	XXXXXXXXX196	M.E/M.Tech	JNTUK Kakinada	Computer Science and Engineering	23/05/2012	12.10	Assistant Professor	Assistant Professor		Regular	Yes		No
45	Mr.D.LokeshSai Kumar	XXXXXXX42B	XXXXXXXXX692	M.E/M.Tech	JNTUK Kakinada	Computer Science and Engineering	23/05/2012	12.10	Assistant Professor	Assistant Professor		Regular	Yes		No
46	Ms.A.Divya	XXXXXXX43L	XXXXXXXXX416	M.E/M.Tech	Andhra University	Computer Science and Engineering	23/05/2012	12.10	Assistant Professor	Assistant Professor		Regular	Yes		No
47	Mr.A.Yuva Krishna	XXXXXXX24L	XXXXXXXXX890	M.E/M.Tech	Vignan University	Computer Science and Engineering	26/05/2012	12.10	Assistant Professor	Assistant Professor		Regular	Yes		No
48	Mr.V.Rajesh	XXXXXXX35C	NA	M.E/M.Tech	JNTU Hyderabad	Computer Science and Engineering	03/06/2013	10.3	Assistant Professor	Assistant Professor		Regular	No	15/09/2023	No
49	Mr. M Ram Gopal	XXXXXXX03G	XXXXXXXXX813	M.E/M.Tech	JNTUK Kakinada	Computer Science and Engineering	24/06/2009	15.9	Assistant Professor	Assistant Professor		Regular	Yes		No
50	Mr.B.Vinay Kumar	XXXXXXX73R	XXXXXXXXX139	M.E/M.Tech	JNTUK Kakinada	Computer Science and Engineering	05/01/2021	4.3	Assistant Professor	Assistant Professor		Regular	Yes		No
51	Ms Y. Manasa	XXXXXXX75C	XXXXXXXXX434	M.E/M.Tech	JNTUK Kakinada	Computer Science and Engineering	21/12/2021	3.3	Assistant Professor	Assistant Professor		Regular	Yes		No
52	Mr Y. Ayyappa	XXXXXXX97H	NA	M.E/M.Tech	JNTUK Kakinada	Computer Science and Engineering	30/12/2021	1.4	Assistant Professor	Assistant Professor		Regular	No	31/05/2023	No
53	Mr.A.Prashant	XXXXXXX64M	XXXXXXXXX738	M.E/M.Tech	JNTUK Kakinada	Computer Science and Engineering	14/03/2022	3	Assistant Professor	Assistant Professor		Regular	Yes		No
54	Ms.P.Dedeepya	XXXXXXX92B	XXXXXXXXX594	M.E/M.Tech	JNTUK Kakinada	Computer Science and Engineering	17/03/2022	3	Assistant Professor	Assistant Professor		Regular	Yes		No

55	Mr.L.V. Krishna Rao	XXXXXXX59A	XXXXXXXXX093	M.E/M.Tech	JNTUK Kakinada	Computer Science and Engineering	05/05/2022	2.11	Assistant Professor	Assistant Professor		Regular	Yes		No
56	Ms.V.Swathi	XXXXXXX75R	NA	M.E/M.Tech	JNTUK Kakinada	Computer Science and Engineering	04/07/2022	0.11	Assistant Professor	Assistant Professor		Regular	No	03/07/2023	No
57	Mr. K. Michael Sadgun Rao	XXXXXXX01E	XXXXXXXXX577	M.E/M.Tech	JNTUK Kakinada	Software Engineering	01/08/2022	2.8	Assistant Professor	Assistant Professor		Regular	Yes		No
58	Mr. E. Bala Bhaskara Rao	XXXXXXX63H	XXXXXXXXX659	M.E/M.Tech	Andhra University	Computer Science and Technology	29/08/2022	2.7	Assistant Professor	Assistant Professor		Regular	Yes		No
59	Dr. K. Jyosthna Devi	XXXXXXX66D	XXXXXXXXX788	Ph.D	SRM University , AP	Computer Science and Engineering	21/06/2023	1.9	Assistant Professor	Assistant Professor		Regular	Yes		No
60	Mr.N.Sudhakar Reddy	XXXXXXX71L	XXXXXXXXX110	M.E/M.Tech	NITK, Suratkal	Systems Analysis and Computer Applications	05/07/2023	1.9	Assistant Professor	Assistant Professor		Regular	Yes		No
61	Dr. U. Sirisha	XXXXXXX89N	XXXXXXXXX418	Ph.D	VIT AP University	Computer Science and Engineering	26/08/2023	1.7	Assistant Professor	Assistant Professor		Regular	Yes		No
62	Ms.D.Jyothi	XXXXXXX21A	XXXXXXXXX194	M.E/M.Tech	JNTUK Kakinada	Computer Science and Engineering	27/05/2024	0.10	Assistant Professor	Assistant Professor		Regular	Yes		No
63	Ms.M.Bhavya Lakshmi	XXXXXXX24H	XXXXXXXXX887	M.E/M.Tech	JNTUK Kakinada	Computer Science and Engineering	21/10/2024	0.5	Assistant Professor	Assistant Professor		Regular	Yes		No
64	Ms A. Naga Pravallika	XXXXXXX46M	XXXXXXXXX018	M.E/M.Tech	Acharya Nagarjuna University	Computer Science and Engineering	06/12/2024	0.4	Assistant Professor	Assistant Professor		Regular	Yes		No
65	Ms K. Naga Divya	XXXXXXX06Q	XXXXXXXXX094	M.E/M.Tech	JNTU Anantapur	Computer Science and Engineering	20/12/2024	0.3	Assistant Professor	Assistant Professor		Regular	Yes		No
66	Ms.Shilpee Kumari	XXXXXXX20Q	NA	M.E/M.Tech	MNIT ,Jaipur	Embedded Systems	27/08/2020	3	Assistant Professor	Assistant Professor		Regular	No	19/09/2023	No
67	Ms. B Raja Rajeswari	XXXXXXX56H	NA	M.E/M.Tech	Krishna University	Computer Science and Engineering	06/12/2021	1.9	Assistant Professor	Assistant Professor		Regular	No	30/09/2023	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 Department4 No. of PG Programs in the Department0

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

Description	CAY(2024-25)	CAYm1 (2023-24)	CAYm2 (2022-23)
UG1.B	132	132	132
UG1.C	132	132	132
UG1.D	132	132	132
<b>UG1: Information Technology</b>	<b>396</b>	<b>396</b>	<b>396</b>
UG2.B	66	66	0
UG2.C	66	0	0
UG2.D	0	0	0
<b>UG2: Computer Science and Engineering (Data Science)</b>	<b>132</b>	<b>66</b>	<b>0</b>
UG3.B	66	66	0
UG3.C	66	0	0
UG3.D	0	0	0
<b>UG3: Computer Science and Engineering (Artificial Intelligence &amp; Machine Learning)</b>	<b>132</b>	<b>66</b>	<b>0</b>
UG4.B	198	198	198
UG4.C	198	198	198
UG4.D	198	198	198
<b>UG4: Computer Science and Engineering</b>	<b>594</b>	<b>594</b>	<b>594</b>
DS=Total no. of students in all UG and PG programs in the Department	396	396	396
AS=Total no. of students of all UG and PG programs in allied departments	858	726	594
S=Total no. of students in the Department (DS) and allied departments (AS)	<b>S1= 1254</b>	<b>S2= 1122</b>	<b>S3= 990</b>
DF=Total no. of faculty members in the Department	22	23	22
AF= Total no. of faculty members in the allied Departments	50	45	40
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	<b>F1= 72</b>	<b>F2= 68</b>	<b>F3= 62</b>
FF=The faculty members in F who have a 100% teaching load in the first-year courses	5	5	4
Student Faculty Ratio (SFR)=S/(F-FF)	<b>SFR1= 18.72</b>	<b>SFR2= 17.81</b>	<b>SFR3= 17.07</b>
Average SFR for 3 years	<b>SFR= 17.87</b>		

- 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	$FQ = 2.5 \times [(10X + 4Y) / RF]$
2024-25(CAY)	27	45	56.00	20.09
2023-24(CAYm1)	26	42	52.00	20.58
2022-23(CAYm2)	26	36	49.00	20.61

#### C4. Faculty Cadre Proportion

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

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

Year	Professors		Associate Professors		Assistant Professors	
	Required RF1	Available AF1	Required RF2	Available AF1	Required RF3	Available AF3
2024-25	6.00	6.00	12.00	8.00	37.00	58.00
2023-24	5.00	7.00	11.00	8.00	35.00	53.00
2022-23	5.00	6.00	11.00	4.00	33.00	52.00
Average	RF1=5.33	AF1=6.33	RF2=11.33	AF2=6.67	RF2=35.00	AF2=54.33

#### 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	Ms. D.Venkata Padmini	Sr. Software Engineer	DBS Technologies Pvt. Ltd, Hyderabad	Statistical Machine Learning and Advanced Techniques in Statistical Machine Learning	50.00

#### (CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Ms. D.Venkata Padmini	Sr. Software Engineer	DBS Technologies Pvt. Ltd, Hyderabad	Data Science	50.00

#### (CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	NIL	NIL	NIL	NIL	0.00

**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	36	16	10
2	No. of peer reviewed conference papers published	10	10	9
3	No. of books/book chapters published	7	0	0

**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
-	-	-	-	-	-	0.00
						Amount received (Rs.):0.00

(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
-	-	-	-	-	-	0.00
						Amount received (Rs.):0.00

(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
-	-	-	-	-	-	0.00
						Amount received (Rs.):0.00

**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)

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
D. Nithin J. Leela Deepak K.Deepak Kumar N.Uma Pavan Ch. Rishik	Dr. G. Reshma, Mr.Ch. Praneeth	Sefe Automation System Pvt.Ltd Hyderabad.	Home Automation System	Sefe Automation System System Pvt Ltd. Hyderabad	One Year	0.85
A.Manjunath A. Chaitanya	Mr.Ch. Praneeth	Funnl Moving D Needle, Hyderabad	Web application for HR recruitment process	Funnl Moving D Needle. Hyderabad	One Year	0.20
						Amount received (Rs.):1.05

(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
-	-	-	-	-	-	0.00
						Amount received (Rs.):0.00

(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
-	-	-	-	-	-	0.00
						Amount received (Rs.):0.00

Total amount (Lacs) received for the past 3 years: 1.05

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
BV. Satish Babu	Low cost water Quality monitoring system for rural communities	12 Months	0.30	0.26	Patent Published
Dr D Kavitha	Automated Door locked system using face recognition	12 Months	0.30	0.27	Patent Published
Dr G Reshma	Advanced Foot step Power generation system using RFID for charging	12 Months	0.30	0.25	Patent Published
D.Leela Dharani Mrs. K Swarupa Rani	Advanced Aqua Culture Monitoring System	12 Months	0.30	0.22	Patent Published
Ch Chandra Mohan	IoT Based waste bins monitoring system in smart cities	12 Months	0.30	0.26	Patent Published
			Amount received (Rs.): 1.50		

(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 S. Sai Kumar	Wireless Bluetooth Controlled Robot Using Arduino	12 Months	0.40	0.27	Patent Published
Dr. G. Lakshmi	Electric Short circuit Detection System using Arduino	12 Months	0.30	0.21	Patent Published
Mrs J. Sirisha	Plant Moisture	12 Months	0.30	0.21	Patent Published
Dr K. Pavan Kumar	IoT Based Water Quality Detection	12 Months	0.40	0.21	Patent Published
Mr D. Sreenivasa Rao	Indoor IoT Home Automation Application with voice Automation and Operability Integration	12 Months	0.40	0.06	Conference Attended
			Amount received (Rs.): 1.80		

(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 A. Haritha	Car Sentry-Owner Assistant	16 Months	0.40	0.40	Patent Published
Dr.V.Siva Parvathi	Real Time LTE Arduino GPS Tracker	12 Months	0.40	0.33	Patent Published
Mr. Ch. Praneeth	Intelligent Water pumping for Fields using IoT	12 Months	0.40	0.20	Patent Published
Dr Y Padma	Vehicle Movement based street lights with External light Sensing using IoT	12 Months	0.40	0.22	Project model was developed
			Amount received (Rs.): 1.60		

Total amount (Lacs) received for the past 3 years : 4.90

## 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		
					Technical Manpower Support		
					Name of the Technical staff	Designation	Qualification
1	Programming Languages and Projects Lab	1	HP Proliant ML310e Gen8 v2 Server (8GB RAM , 2TB HDD)-1, HP ProDesk 400 G2 MT Desktop	Semester 1:38	Mr. Ch. Kanaka Raju	Lab Technician	DECE
2	Database Systems and Projects Lab	1	HP ProDesk 280 G1 MT Desktop Computers-30,HP 600G3MT Desktops 6, HP E700 Desktops - 4, HP	Semester 1:38	Mr. Ch. Kanaka Raju	Lab Technician	DECE
3	OOPL Lab	1	HP Proliant ML 350G6 Server-1, HP PRO 3090MT Desktops(Core2Duo Processor, 2GB DDR, 320HB	Semester 1:39	Mr. Sk. Usman	Hardware Technician	B. Sc, CHT , Certificate
4	Open Source Lab	1	HP PRO3090 Desktops( Core2Duo Processor, 2GB DDR RAM, 320GB HDD) -05, HP Pro Tower 400	Semester 1:39	Mr. Sk. Usman	Hardware Technician	B. Sc, CHT , Certificate

5	IDE Lab	1	HP ML 310 SERVER (16GB RAM , 2TB HDD, Intel Xeon E3-1220 V3 Processor) -1 HP Pro 6200MT	Semester 1:39	Mr. I. Yoganand	Lab Technician	B. Sc, DCHN
6	Application Development Lab	1	HP Pro 3330MT Desktops-22, HP 1007 Laser Jet Printer- 1, HP 1020 Plus Laser Jet Printer-1	Semester 1:39	Mr. I. Yoganand	Lab Technician	B. Sc, DCHN
7	Installation Lab	1	VESTA PC-P-IV Desktops -4, Zenith PC P-IV Desktops - 4, HP Pro 3090 MT Desktop (	Semester 1:12	Mrs. Y. Lakshmi	Lab Technician	DECE, (B. Tech)
8	System Components Lab	1	VESTA PC PIV Desktop -1, HP 3090 Desktops- 8, Peripheral devices and Display Board	Semester 1:12	Mrs. Y. Lakshmi	Lab Technician	DECE, (B. Tech)

## D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Programming Languages and Projects Lab	<ul style="list-style-type: none"> <li>• UPS is available to regulate the power supply and backup.</li> <li>• Electrical earth and MCB protection is available</li> <li>• Fire extinguisher is available in the laboratories.</li> <li>• General rules of conduct are displayed in the laboratories.</li> <li>• First aid kit, medicines are available at Department office.</li> </ul>
2	Database Systems and Projects Lab	<ul style="list-style-type: none"> <li>• UPS is available to regulate the power supply and backup.</li> <li>• Electrical earth and MCB protection is available</li> <li>• Fire extinguisher is available in the laboratories.</li> <li>• General rules of conduct are displayed in the laboratories.</li> <li>• First aid kit, medicines are available at Department office.</li> </ul>
3	OOPL Lab	<ul style="list-style-type: none"> <li>• UPS is available to regulate the power supply and backup.</li> <li>• Electrical earth and MCB protection provided to all the laboratories.</li> <li>• Fire extinguisher is available.</li> <li>• General rules of conduct are displayed in the laboratories.</li> <li>• First aid kit, medicines are available at Department office.</li> </ul>
4	Open Source Lab	<ul style="list-style-type: none"> <li>• UPS is available to regulate the power supply and backup.</li> <li>• Electrical earth and MCB protection provided to all the laboratories.</li> <li>• Fire extinguisher is available.</li> <li>• General rules of conduct are displayed in the laboratories.</li> <li>• First aid kit, medicines are available at Department office.</li> </ul>
5	Application Development Lab	<ul style="list-style-type: none"> <li>• UPS is available to regulate the power supply and backup.</li> <li>• Electrical earth and MCB protection provided to all the laboratories.</li> <li>• Fire extinguisher is available.</li> <li>• General rules of conduct are displayed in the laboratories.</li> <li>• First aid kit, medicines are available at Department office.</li> </ul>
6	IDE Lab	<ul style="list-style-type: none"> <li>• UPS is available to regulate the power supply and backup.</li> <li>• Electrical earth and MCB protection provided to all the laboratories.</li> <li>• Fire extinguisher is available.</li> <li>• General rules of conduct are displayed in the laboratories.</li> <li>• First aid kit, medicines are available at Department office.</li> </ul>
7	Installation Lab	<ul style="list-style-type: none"> <li>• Fire extinguisher is available in the laboratories.</li> <li>• Electrical earth and MCB protection provided.</li> <li>• General rules of conduct are displayed in the laboratories.</li> <li>• First aid kit, medicines are available at Department office.</li> </ul>

8	System Components Lab	<ul style="list-style-type: none"> <li>• Fire extinguisher is available in the laboratories.</li> <li>• Electrical earth and MCB protection provided.</li> <li>• General rules of conduct are displayed in the laboratories.</li> <li>• First aid kit, medicines are available at Department office.</li> </ul>
9	Incubation Center	<ul style="list-style-type: none"> <li>• Electrical earth and MCB protection provided.</li> <li>• Fire extinguisher is available in the laboratories.</li> <li>• General rules of conduct are displayed in the laboratories.</li> <li>• First aid kit, medicines are available at Department office.</li> </ul>

**D3. Project Laboratory/Research Laboratory**

The Following Tables/Information provides the details of the below listed points:

**A. Availability of Project Laboratories/Research laboratories**

**B. Availability of Centre of Excellence**

**C. Utilization of Project laboratories/research labs/Centre of Excellence**

**D. Relevance to POs/PSOs**

Table No. 7.5.1: List of project laboratory/research laboratory/Centre of Excellence.

Sr No	Name of the Laboratory
1	<p><b>Incubation Centre</b></p> <p><b>Equipment:</b> HP Pro 3330MT Desktops (Intel Core i5 3470, 4 GB RAM, 500 GB HDD, DVD Writer, HP Keyboard, HP Optical Mouse, HP 19" LED Monitor) - 6, HP E7600 Desktop -1, HP Core i7 Desktop -1. IOT Kits(Raspberry Pi 3 model b -10nos, Raspberry Pi case - 10nos, HDMI to VGA Converter - 10nos, 8 GB Memory card - 10nos, Bread Board -10nos, 5v Relay -20nos, LED - 20nos, Jumper Wires (M-F) -200nos, Temperatures Sensor - 10nos, Soil Moisture Sensor -10nos, PIR Motion Sensor - 10nos, LDR Module - 5nos, Resistors- 40nos, Pressure Sensor -2nos, Power Charger - 10nos)</p> <p><b>Outcome:</b> Offers resources and services to help students to develop their ideas, refine their plans and launch new applications.</p>

Table 7.5.2 List of Projects in the Academic Year 2024-25 (Best five projects)

Sr No	Name of the Student(s)	Title of the Project	Attainment of POs & PSOs	Result	Outcome
1	A.SNEHITHA (21501A1204), CH.VEENA SAHITHI (21501A1223), B.SPANDANA (21501A1220), D.PRAVEEN (21501A1229)	AUTOMATED DETECTION OF CYBERBULLYING ON TWITTER USING MACHINE LEARNING TECHNIQUES	POs: PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12 PSOs: PSO1, PSO2		Published as a Patent in Intellectual property of India with an Application Number: 202541012199
2	G. ASHOK KUMAR (21501A1241), K. SANDEEP KUMAR (21501A1254), B. SOWMYA (22505A1202), M. RAMNAIDU (22505A1207)	KRISHIMITHRA - AN ANDROID APPLICATION FOR SMART FARMING	POs: PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12 PSOs: PSO1, PSO2		Presented in "International Conference on Artificial Intelligence and Sustainable Development" (ICAMSD 2025), February, 21-22, 2025 organized by Mallareddy Engineering College and accepted for publication (Scopus).

3	A.YAMUNA (21501A1207), G.SRI SINDHU (21501A1236), L.NAGA POOJITHA (21501A1264), A.K.VARSHITH KUMAR (22505A1201)	ANALYSIS OF WETLAND CHANGES USING THE HSV COLOR MODEL	POs: PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12  PSOs: PSO1, PSO2		Published in "International Journal for Research Trends and Innovation" Volume 10, Issue 3, ISSN: 2456-3315, March 2025. <a href="https://www.ijrti.org/papers/IJRTI2503010.pdf">https://www.ijrti.org/papers/IJRTI2503010.pdf</a>
4	N. CHARUHASIN I(21501A1283), P. DRAKSHAYANI (21501A1290), P. DHANASRI APARNA (21501A1288), P. PRAVALIKA (21501A1297)	ANALYZING PRIVACY PRESERVING TECHNIQUES IN MACHINE LEARNING FOR DATA UTILITY	POs: PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12  PSOs: PSO1, PSO2		Published in "International Journal of Computer Science and Engineering" Volume 13, Issue 2, ISSN: 2347-2693, February 2025. <a href="https://www.ijcseonline.org/pdf_paper_view.php?paper_id=5767&amp;8-IJCSE-09547.pdf">https://www.ijcseonline.org/pdf_paper_view.php?paper_id=5767&amp;8-IJCSE-09547.pdf</a>
5	MARRAPU VASANTH VARDHAN (21501A1271), TADEPALLI HASITHA SOWMYA (21501A12B5), PERUMALLA YAMINI PRIYA (22505A1209), SHAIK NAFEEZ WAHAB (22505A1214)	GPS INDEPENDENT SMART INDOOR NAVIGATION SYSTEM	POs: PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12  PSOs: PSO1, PSO2		Presented in "3rd IEEE International Conference on Device Intelligence, Computing and Communication Technologies (DICCT – 2025)", 21-22 March 2025, organized by dept of ECE, Graphic Era, Dehradun and accepted for publication (Scopus).

Table 7.5.3 List of Projects in the Academic Year 2023-24 (Best five projects)

Sr No	Name of the Student(s)	Title of the Project	Attainment of POs & PSOs	Result	Outcome
1	GUDIMETLA VINAY SAI (21505A1204), KALLEPALLI USHA RANI (20501A1249), GARNEPUDI RISHITHA (20501A1229), KRISTIPATI SUPRIYA (21505A1205)	TOONMAGIC: A JOURNEY INTO CARTOON GENERATION USING DEEP LEARNING	POs: PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12  PSOs: PSO1, PSO2		Panel of examiners carefully evaluated the projects and they selected this project as the best project.

2	BURAGADDA SAI KRISHNA ATHUL (20501A1212), JONNADULA LASYA (20501A1245), GONGATI KIRAN (20501A1230)	STUDY SUPPORT BOT	POs: PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12  PSOs: PSO1, PSO2		Panel of examiners carefully evaluated the projects and they selected this project as the best project.
3	S V P SAI SWARUPA KAVYA (20501A12B2), MIZBA FATHIMA MIRZA (20501A1275), SURAPANENI SAHITHI (20501A12B4), NIDAMARTHI RAJESWARI (20501A1286)	HARNESSING MACHINE LEARNING FOR EFFECTIVE DRIVER DROWSINESS ALERT SYSTEM	POs: PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12  PSOs: PSO1, PSO2		Panel of examiners carefully evaluated the projects and they selected this project as the best project.
4	MOHAMMAD RABIYA BASRI (20501A1276), SHAIK ISHRATH FATHIMA (20501A12A4), SONGA BHARGAVI (20501A1210), NIMMALA SESHA SHRI SAI DHEERAJ (20501A1289)	REVOLUTIONIZING HEALTH CARE: MACHINE LEARNING PRECISION IN PREDICTING MULTIPLE DISEASES	POs: PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12  PSOs: PSO1, PSO2		Panel of examiners carefully evaluated the projects and they selected this project as the best project.
5	P.SUJAN CHOWDHARY (20501A12B3), P.BHAVANI (21505A1209), U.SANGEETHA (21505A1212), N.KISHORE BABU (21505A1208)	UNSUPERVISED DOMAIN ADAPTATION MODEL FOR CRIME RISK PREDICTION ACROSS CITIES	POs: PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12  PSOs: PSO1, PSO2		Panel of examiners carefully evaluated the projects and they selected this project as the best project.

Table 7.5.4 List of Projects in the Academic Year 2022-23 (Best five projects)

Sr No	Name of the Student(s)	Title of the Project	Attainment of POs & PSOs	Result	Outcome
1	A.DURGA GRISHMITHA(19501A1201), M.PALLAVI (19501A1259), J.HARINI (19501A1240) G.V.SAI KARTHIK (19501A1235)	REAL-TIME IMAGE ANIMATION	POs: PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12  PSOs: PSO1, PSO2		Published in "Journal of Emerging Technologies and Innovative Research" Volume 10, Issue 5, ISSN: 2349-5162, MAY 2023. <a href="https://www.jetir.org/papers/JETIR2305461.pdf">(https://www.jetir.org/papers/JETIR2305461.pdf)</a>
2	DAMA SRILATHA (19501A1216), GUNDAPANENI POOJITHANJALI (19501A1234), KALAKONDA SAI KRUTHI (20505A1201), ANUMOLU SAI VENKATA RAMANA (19501A1203)	DIABETES PREDICTION USING MACHINE LEARNING	POs: PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12  PSOs: PSO1, PSO2		Panel of examiners carefully evaluated the projects and they selected this project as the best project.

3	G.RESHMA (19501A1232), B. SIRI CHANDHANA (19501A1254), B. NITISH (19501A1210), D. SITHARAM (19501A1218)	DRIVER DROWSINESS DETECTION USING MACHINE LEARNING	POs: PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12 PSOs: PSO1, PSO2		Published in "Journal of Emerging Technologies and Innovative Research" Volume 10, Issue 4, ISSN: 2349-5162, APRIL 2023.  <a href="https://www.jetir.org/papers/JETIR2304827.pdf">(https://www.jetir.org/papers/JETIR2304827.pdf)</a>
4	S. JAHNAVI (19501A12A7), T. KAUSAR (19501A12B0), V. PAVAN KUMAR (19501A12B8), M. KEERTHI (19501A1271)	MULTIPLE DISEASE PREDICTION USING MACHINE LEARNING	POs: PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12 PSOs: PSO1, PSO2		Industry related project.
5	VEGINATI KEERTHI (19501A12B7), YARLAGADDA LEELA SRI (19501A12C3), PIDAMARTHY SIRISHA (19501A1287), MURUGU SUPRITHA (19501A1276)	SUCCESSIVE WORD PREDICTION	POs: PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12 PSOs: PSO1, PSO2		Published in "International Journal of Scientific Research in Engineering and Management" Volume 7, Issue 4, ISSN: 2582-3930, APRIL 2023.  <a href="https://ijsrem.com/download/successive-word-prediction/">(https://ijsrem.com/download/successive-word-prediction/)</a>

Table 7.5.5 List of Projects in the Academic Year 2021-22 (Best five projects)

Sr No	Name of the Student(s)	Title of the Project	Attainment of POs & PSOs	Result	Outcome
1	P.SARAYU MAHA LAKSHMI (18501A1290), N.V.R.N.P.KOWSHIK (18501A1271), N.DIVYA SREE (18501A1270), V.PUJITHA (19505A1212)	SMART SWITCHES	POs: PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12 PSOs: PSO1, PSO2		Panel of examiners carefully evaluated the projects and they selected this project as the best project.
2	M.SUPRIYA (18501A1264), R.YAGNA PRIYA (18501A1286), T.SAI SRVANTHI (18501A12A3), A.UMA SANKAR (16501A1202)	SAFE DISTANCE DETECTION AND MONITORING USING DEEP LEARNING AND COMPUTER VISION STRATEGIES	POs: PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12 PSOs: PSO1, PSO2		Panel of examiners carefully evaluated the projects and they selected this project as the best project.
3	A.DAYANA CHOWDARY (18501A1208), B.RENEETHA (18501A1213), G.SRI VALLI (18501A1234), G.ABHISHEK (18501A1233)	GOOGLE CHROME EXTENSION - DISTRACTION ALERTER	POs: PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12 PSOs: PSO1, PSO2		Panel of examiners carefully evaluated the projects and they selected this project as the best project.

4	A.SAI RESHMA (18501A1205), K.R.R.DEEKSHITHA (18501A1249), CH.SUNIL KUMAR (18501A1224), A.SAI SUNISHA (18501A1209)	FOOD SUPPLY CHAIN USING BLOCK CHAIN TECHNOLOGY	POs: PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12  PSOs: PSO1, PSO2		Panel of examiners carefully evaluated the projects and they selected this project as the best project.
5	M.SUSRITHA (18501A1258), D.BHAVANI (18501A1226), A.SURYA CHARAN (18501A1202), B.DIVYA (18501A1226)	MALICIOUS URL DETECTION USING HEURISTIC APPROACH	POs: PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12  PSOs: PSO1, PSO2		Panel of examiners carefully evaluated the projects and they selected this project as the best project.

Table 7.5.6 List of research projects carried out by the faculty (sponsored by Siddhartha Academy of General and Technical Education) in the Academic Year 2024-25

Sr No	Name of the Project	Name of the Faculty with Designation
1	SMART WASTE MANAGEMENT SYSTEMS	Ms K. Sri Vijaya, Asst Prof
2	IOT BASED AUTOMATIC LIGHTING AND CONTROL SYSTEM FOR CLASSROOMS	Mr P. Ravi Prakash, Asst Prof
3	IOT BASED VOICE CONTROLLED LIGHRNING SYSETM FOR VISUALLY IMPAIRED	Mrs V. Rashmi, Asst Prof
4	IOT BASED E-CROP POWER AND WATER UTILITY MANAGEMENT SYSTEM	Mr D. Bharadwaja, Asst Prof
5	RFID ATTENDANCE SYSTEM	Mr IMV Krishna, Asst Prof

Table 7.5.7 List of research projects carried out by the faculty (sponsored by Siddhartha Academy of General and Technical Education) in the Academic Year 2023-24

Sr No	Name of the Project	Name of the Faculty with Designation
1	Low cost water Quality monitoring system for rural communities	Mr B .Satish Babu, Asst Professor
2	Automated Door locked system using face recognition	Dr D Kavitha, Associate Professor
3	Advanced Foot step Power generation system using RFID for charging	Dr G Reshma, Asst Professor
4	Advanced Aqua Culture Monitoring System	Mrs D. Leela Dharani, Asst Professor Mrs. K. Swarupa Rani, Asst Professor
5	IoT Based waste bins monitoring system in smart cities	Mr Ch Chandra Mohan, Asst Professor

Table 7.5.8 List of research projects carried out by the faculty (sponsored by Siddhartha Academy of General and Technical Education) in the Academic Year 2022-23

Sr No	Name of the Project	Name of the Faculty with Designation
1	Wireless Bluetooth Controlled Robot Using Arduino	Dr S. Sai Kumar, Asst Professor
2	Electric Short circuit Detection System using Arduino	Dr.G. Lakshmi, Asst Professor
3	Indoor IoT Home Automation Application with voice Automation and Operability Integration	Mr D. Sreenivasa Rao, Asst Professor
4	Plant Moisture Monitoring System	Mrs J. Sirisha, Asst Professor
5	IoT Based Water Quality Detection	Dr K. Pavan Kumar, Asst Professor

**Table 7.5.9 List of research projects carried out by the faculty (sponsored by Siddhartha Academy of General and Technical Education) in the Academic Year 2021-22**

Sr No	Name of the Project	Name of the Faculty with Designation
1	Car Sentry-Owner Assistant	Dr A. Haritha, Associate Professor
2	Real Time LTE Arduino GPS Tracker	Dr.V.Siva Parvathi, Asst Professor
3	Intelligent Water pumping for Fields using IoT	Mr. Ch. Praneeth, Asst Professor
4	Vehicle Movement based street lights with External light Sensing using IoT	Dr Y Padma, Asst Professor

## 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)	720	36	28	11	68
2023-24(CAYm1)	720	36	27	14	68
2024-25(CAY)	780	39	25	14	58

### 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	3700000	17455000	3200000	4376000	3150000	1653000	5450000	1019000

Library	3095000	2979000	2550000	3295000	2478000	2996000	2365000	2554000
Laboratory equipment	54656000	33844000	39012000	28548000	32204000	26598000	14464000	19884000
Teaching and non-teaching staff salary	241021000	245419000	230845000	242250000	219853000	227822000	213439000	219550000
Outreach Programs	2117000	2475000	1118000	2158000	1512000	856000	1109000	92000
R&D	2525000	973000	1817000	1183000	1725000	818000	1450000	488000
Training, Placement and Industry linkage	5055000	5013000	4770000	4216000	3038000	3395000	3980000	1024000
SDGs	165000	1970000	376000	1783000	195000	369000	1220000	344000
Entrepreneurship	485000	29000	392000	98000	301000	145000	194000	12000
Other Maintenance Expenses	20871000	31828000	21967000	20927000	20911000	25766000	19499000	21467000
<b>Total</b>	<b>333690000</b>	<b>341985000</b>	<b>306047000</b>	<b>308834000</b>	<b>285367000</b>	<b>290418000</b>	<b>263170000</b>	<b>266434000</b>

### 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	2535932	2184047	1000000	786632.93	5374848	5400009	274000	370981.08
Software	129669.1	129669.1	105111.49	105111.49	115340.28	115340.28	105371.05	105371.05
SDGs	30000	30000	30000	30000	40000	40000	40000	40000
Support for faculty development	100000	21749	175000	144463	125000	122250	45000	15000
R & D	130000	130000	120000	120000	160000	140000	120000	120000
Industrial Training, Industry expert, Internship	705000	705000	425000	425000	356837	356837	100000	100000
Miscellaneous Expenses*	50000	55955	50000	49554	50000	129272	40000	40000
<b>Total</b>	<b>3680601.1</b>	<b>3256420.1</b>	<b>1905111.49</b>	<b>1660761.42</b>	<b>6222025.28</b>	<b>6303708.28</b>	<b>724371.05</b>	<b>791352.13</b>