

NATIONAL BOARD OF ACCREDITATION

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

PART-A: Profile of the Institute

Name of the Program Applied for: B.Tech - Mechanical Engineering

A1: Name of the Institute: SR University

Year of Establishment: 2002

Location of the Institute: Warangal

A2: Institute Address: -

City : Warangal

State : Telangana

Pin Code : 506371

Website: www.sru.edu.in

E-mail : registrar@sru.edu.in

Phone No (with STD Code):0870-281833

A3: Name and Address of the Affiliating University (If any): NA

A4: Type of the Institution: - (Tick the applicable choice)

Institute of National Importance

Deemed University

University ✓

Autonomous

Non-Autonomous (Affiliated)

Any other (Please specify) *

***Provide Details:** _____

A5: Ownership Status: - (Tick the applicable choice)

Central Government

State Government

Government Aided

Self-financing ✓

Any Other (Please specify) *

***Provide Details:**

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

➤ No. of UG programs: **11**

➤ No. of PG programs : **08**

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

S.No.	Level of program (UG/PG)	Name of the program	Year of Start	Name of the Department
1	UG	B.Tech. - Civil Engineering	2009	Civil Engineering
2	UG	B.Tech. - Electrical & Electronics Engineering	2002	Electrical and Electronics Engineering
3	UG	B.Tech. - Mechanical Engineering	2004	Mechanical Engineering
4	UG	B.Tech. - Electronics & Communication Engineering	2002	Electronics and Communication Engineering
5	UG	B.Tech. – Electronics & Communication Engineering (Artificial Intelligence and Machine Learning)	2023	Electronics and Communication Engineering
6	UG	B.Tech. - Computer Science and Engineering	2002	Computer Science and Engineering
7	UG	B.Tech. - Computer Science and Engineering (Artificial Intelligence & Machine Learning)	2020	Computer Science and Engineering
8	UG	B.Tech. - Computer Science and Engineering (Cyber Security)	2023	Computer Science and Engineering
9	UG	B.Tech. - Computer Science and Engineering (Data Science)	2020	Computer Science and Engineering
10	UG	BBA - Bachelor of Business Administration	2020	Management
11	UG	B.Sc. (Hons) Agriculture	2020	Agriculture
12	PG	M.Tech. - Construction Technology and Management	2020	Civil Engineering
13	PG	M.Tech. - Power Electronics	2008	Electrical and Electronics Engineering
14	PG	M.Tech. - Advanced Manufacturing Systems	2012	Mechanical Engineering
15	PG	M.Tech. - Electronics Design & Technology	2013	Electronics and Communication Engineering
16	PG	M.Tech. - Embedded Systems	2008	Electronics and Communication Engineering
17	PG	M.Tech. - Computer Science and Engineering	2009	Computer Science and Engineering
18	PG	MCA - Master of Computer Applications	2023	Computer Science and Engineering
19	PG	MBA - Masters in Business Administration	2006	Management

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

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

S.No.	Name of the Department	Name of the Program
1	Civil Engineering	B.Tech. - Civil Engineering
2	Computer Science and Engineering	B.Tech. - Computer Science and Engineering
3	Electrical & Electronics Engineering	B.Tech. - Electrical & Electronics Engineering
4	Electronics & Communication Engineering	B.Tech. - Electronics & Communication Engineering
5	Mechanical Engineering	B.Tech. - Mechanical Engineering

Table No. A7.2: Allied Department(s) to the Department of the program considered for accreditation as above.

S.No.	Name of the Department (in table no. A7.1)	Name of allied Departments/Cluster (for table no. A7.1)
	NA	NA

PART-B: Program information

(Data to be filled in for the program applied for Accreditation)

B1: Provide the Required Information for the Program Applied For: -

Table No. B1: Program details.

Name of Program	Program Applied level	Start of year	Year of AICTE/ Competent Authority approval	Initial Intake	Intake Increase	Current Intake	AICTE/ Competent Authority Approval Details	Accreditation status	Program for consideration	Program for Duration
Mechanical Engineering	UG	2004	2021	60	Yes	60	Minutes of Board of Management meeting dated: 12-02-2021	Granted accreditation for 3 years (2019-2022) and for 3 years (2022-2025) upon submission of compliance report	2	4
Sanctioned Intake for Last Five Years for the Mechanical Engineering										
Academic Year						Sanctioned Intake				
2024-25						60				
2023-24						60				
2022-23						60				
2021-22						60				
2020-21						120				
2019-20						120				

B2: Detail of Head of the Department for the program under consideration:**A. Name of the HoD :** Dr. Kumar Sourav**B. Nature of appointment: (Tick the applicable choice)**

❖ Regular ✓

❖ Contract

❖ Ad hoc

C. Qualification: (Tick the applicable choice)

❖ Ph.D. ✓

❖ ME/M.Tech

❖ Any other*

***Please provide details:** _____

B3: Program Details

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

Item (Information is to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2025-26 (CAY)	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)	2021-22 (CAYm4)	2020-21 (CAYm5)	2019-20 (CAYm6)
N= Sanctioned intake of the program (as per AICTE/ Competent authority)	60	60	60	60	60	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	60	49	36	34	46	42	37
N2= Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	14	12	13	7	53	55
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	2	3	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.	62	66	48	47	53	95	92

B4: Enrolment Ratio in the First Year

Table No. B4.1: Student enrolment ratio in the 1st year.

Item (Students enrolled in the First Year on average over 3 academic years (CAY, CAYm1, and CAYm2))	2025-26 (CAY)	2024-25 (CAYm1)	2023-24 (CAYm2)
N= Sanctioned intake of the program in the 1 st year (as per AICTE / Competent authority)	60	60	60
N1= Total no. of students admitted in the 1 st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	60	49	36
N4= Total no. of students admitted in the 1 st year via all supernumerary quotas	2	3	0
Enrolment Ratio (ER)= (N1+N4)/N	103.33	86.67	60.00
Average ER= (ER_1+ ER_2+ ER_3)/3	83.33		

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

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

Item	(2021-22) LYG	(2020-21) LYGm1	(2019-20) LYGm2
A*= (No. of students admitted in the 1 st year of that batch and those actually admitted in the 2 nd 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).	53	95	92
B=No. of students who graduated from the program in the stipulated course duration	46	87	81
Success Rate (SR)= (B/A)*100	86.79	91.58	88.04
Average SR of three batches ((SR_1+SR_2+ SR_3)/3)	88.80		

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	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)
X= (Mean of 1 st 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)	5.78	6.68	6.34
Y= Total no. of successful students	29	27	25
Z = Total no. of students appeared in the examination	48	35	33
API = X* (Y/Z)	3.49	5.15	4.80
Average API = (API_1 + API_2 + API_3)/3	4.48		

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	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)
X= (Mean of 2 nd 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 2 nd year/10)	7.42	7.57	7.15
Y= Total no. of successful students	43	39	42
Z =Total no. of students appeared in the examination	47	45	51
API = X* (Y/Z)	6.79	6.56	5.89
Average API = (API_1 + API_2 + API_3)/3	6.41		

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	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)
X= (Mean of 3 rd 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 3 rd year/10)	7.64	7.7	7.59
Y= Total no. of successful students	43	42	80
Z= Total no. of students appeared in the examination	45	50	89
API = X* (Y/Z)	7.30	6.47	6.82
Average API = (API_1 + API_2 + API_3)/3	6.86		

B9: Placement, Higher Studies, and Entrepreneurship

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

Item	LYG (2020-21)	LYGm1 (2019-20)	LYGm2 (2018-19)
FS*=Total no. of final year students	53	95	92
X= No. of students placed	32	63	63
Y= No. of students admitted to higher studies	7	19	14
Z= No. of students taking up entrepreneurship	0	0	0
X + Y + Z =	39	82	77
Placement Index (P) = (((X + Y + Z)/FS) * 100)	73.58	86.32	83.70
Average placement index = (P_1 + P_2 + P_3)/3	81.20		

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

S.No.	Name of the Faculty	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/ Adjunct)	If Contractual mention Full Time or (Part Time or hourly based)	Currently Associated (Y/N)	Date of Leaving if any (In case Currently Associated is "No")
1	Vutukuru Mahesh	Ph.D	JNTUH	Industrial Engineering and Manufacturing	14-06-2006	19.10	Asst. Professor	Professor	01.07.2011	Regular	NA	Y	
2	Pulla Sammaiah	Ph.D	OU, Hyderabad.	Materials and Manufacturing	14-12-2005	20.4	Asst. Professor	Professor	01.07.2016	Regular	NA	Y	
3	Pankaj Kumar	Ph.D	ISM Dhanbad	Advanced Manufacturing Processes, Composite Materials	11-01-2016	10.3	Asst. Professor	Professor	01-07-2024	Regular	NA	Y	
4	D Srikanth Rao	M.Tech	Kakatiya University	Design Engineering	20-06-2006	19.9	Asst. Professor	Assoc. Prof.	01-07-2016	Regular	NA	Y	
5	Vontela Devender	M.Tech	KU	Mechanical Design	13-06-2008	17.10	Asst. Professor	Asst. Professor	13-06-2008	Regular	NA	Y	
6	Vinay Kumar Reddy Chalamalla	M.Tech	JNTUH	Design	20-04-2015	10.11	Asst. Professor	Asst. Professor	20-04-2015	Regular	NA	Y	
7	Santhosh Kumar Kamarapu	Ph.D	IIIT, Jabalpur.	Design	20-04-2015	10.11	Asst. Professor	Asst. Professor	20-04-2015	Regular	NA	Y	

8	Mohammed Muneeruddin	M.Tech	JNTU Hyderabad	Advanced Manufacturing Systems	01-07-2015	10.9	Asst. Professor	Asst. Professor	01-07-2015	Regular	NA	Y	
9	Tanuja Sukhacharan Vaidya	Ph.D	Visveswara NIT, Nagpur.	Machine Design	18-05-2020	5.10	Asst. Professor	Assoc. Prof.	04-07-2022	Regular	NA	Y	
10	Subbarao Medabalimi	Ph.D	NITK, Surathkal	Manufacturing Engineering	11-01-2021	5.3	Asst. Professor	Asst. Professor	11-01-2021	Regular	NA	Y	
11	Kumar Sourav	Ph.D	IIT(ISM) Dhanbad	Thermal Engineering	09-08-2023	2.8	Asst. Professor	Assoc. Prof.	01-07-2025	Regular	NA	Y	
12	Akula Priyanka	M.Tech	KU	Design Engineering	09-05-2023	2.11	Asst. Professor	Asst. Professor	09-05-2023	Regular	NA	Y	
13	Shitendu Some	Ph.D	IEST, Shibpur.	Machine Design	09-07-2024	1.9	Asst. Professor	Asst. Professor	09-07-2024	Regular	NA	Y	
14	Dr. Rohit Singh	Ph.D	IIT, Roorkee.	Additive Manufacturing Molecular Dynamics	29-07-2024	1.8	Asst. Professor	Asst. Professor	29-07-2024	Regular	NA	Y	
15	Vikas	Ph.D	NIT Rourkela	Mechanical Engineering	15-04-2024	2.0	Asst. Professor	Asst. Professor	15-04-2024	Regular	NA	Y	
16	Dr.Dipankar Saha	Ph.D	NIT, Agartala	Manufacturing Technology	08-07-2025	0.9	Asst. Professor	Asst. Professor	08-07-2025	Regular	NA	Y	
17	Dr.Shravan Kumar Yadav	Ph.D	IIT, Delhi	Manufacturing Engineering	21-05-2025	0.10	Asst. Professor	Asst. Professor	21-05-2025	Regular	NA	Y	
18	Dr.Vishwanath N	Ph.D	IIT, Hyderabad	Manufacturing Engineering	30-06-2025	0.9	Asst. Professor	Asst. Professor	30-06-2025	Regular	NA	Y	
19	Dr.Prasun Dutta	Ph.D	Indian Institute of Engineering Science and Technology, Shibpur	Water Resources & Hydraulic Engineering	01-07-2025	0.9	Assoc. Prof.	Assoc. Prof.	01-07-2025	Regular	NA	Y	
20	Dr.Vivek Kumar Dhimole	Ph.D	Inha University	Mechanical Engineering	14-07-2025	0.9	Asst. Professor	Asst. Professor	14-07-2025	Regular	NA	Y	
21	Pulluru Satish Kumar	M.Tech	KU	Computer Integrated Manufacturing	07-05-2012	13.0	Assoc. Prof.	Assoc. Prof.	07-05-2012	Regular	NA	N	31-01-2026
22	Subodh Kumar	Ph.D	ISM Dhanbad	Mechanical Design	05-08-2022	2.11	Assoc. Prof.	Assoc. Prof.	05-08-2022	Regular	NA	N	31-07-2025

23	Bohra Nithin Kumar	Ph.D	IIT Madras	HT (Renewable Energy)	15-06-2020	4.10	Asst. Professor	Asst. Professor	15-06-2020	Regular	NA	N	02-05-2025
24	Sykam Surendra Varma	Ph.D	IIT, Bombay.	Thermal Engineering	18-07-2022	2.0	Asst. Professor	Asst. Professor	18-07-2022	Regular	NA	N	31-07-2024
25	Sandeep Gupta	M.Tech	IIT Jodhpur	Thermal Engineering	05-06-2023	1.10	Asst. Professor	Asst. Professor	05-06-2023	Regular	NA	N	01-05-2025
26	Dr.Pradip Mondal	Ph.D	IEST, Shibpur.	Renewable Energy	03-08-2024	1.0	Asst. Professor	Asst. Professor	03-08-2024	Regular	NA	N	25-08-2025
27	Dr.Vaibhav Srivastava	Ph.D	NIT Allahabad	Materials and Manufacturing	12-02-2024	1.5	Asst. Professor	Asst. Professor	12-02-2024	Regular	NA	N	25-07-2025
28	Talluri Gopi	Ph.D	IIT Indore	Metallurgical Engineering & Material Science	26-03-2024	1.9	Asst. Professor	Asst. Professor	26-03-2024	Regular	NA	N	31-12-2025
29	TV Rao	M.Tech	Swami Ramanand Teerth Marathwada University, Nanded	CAD/CAM	11-01-2013	11.4	Assoc. Prof.	Professor	01-07-2021	Regular	NA	N	15-05-2024
30	Vinod Kumar V	Ph.D	UTP, Malaysia.	Energy & Thermal Engineering	16-07-2020	3.10	Assoc. Prof.	Assoc. Prof.	16-07-2020	Regular	NA	N	31-05-2024
31	Jaya Prakash Sri Vastava	Ph.D	ISM Dhanbad	Design Engineering	01-02-2018	5.5	Asst. Prof.	Assoc. Prof.	04-07-2022	Regular	NA	N	31-07-2023
32	M Shiva Chander	M.Tech	JNTU Hyderabad	Advanced Manufacturing Systems	22-04-2017	6.7	Asst. Professor	Asst. Professor	22-04-2017	Regular	NA	N	22-11-2023
33	B. Rajesh	M.Tech	OU, Hyderabad.	Design for Manufacture	12-08-2017	6.4	Asst. Professor	Asst. Professor	12-08-2017	Regular	NA	N	15-12-2023
34	Savindla Sai Mounika	M.Tech	JNTU Hyderabad	Advanced Manufacturing Systems	01-05-2019	4.0	Asst. Professor	Asst. Professor	01-05-2019	Regular	NA	N	31-05-2023
35	Rajashekar Reddy N	M.Tech	Kakatiya Institute of Technology & Science	Design Engineering	31-07-2019	4.0	Asst. Professor	Asst. Professor	31-07-2019	Regular	NA	N	01-08-2023
36	Ankit Dev	Ph.D	IIT Roorkee	Thermal Engineering	01-08-2022	1.5	Asst. Professor	Asst. Professor	01-08-2022	Regular	NA	N	21-01-2024
37	Krishna Kant Dwivedi	Ph.D	National Institute of Technology, Durgapur	Mechanical Engineering	08-09-2025	0.4	Asst. Professor	Asst. Professor	08-09-2025	Regular	NA	N	13-01-2026

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)).

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

Description	CAY (2024-25)	CAYm1 (2023-24)	CAYm2 (2022-23)
UG1.B	66	66	66
UG1.C	66	66	66
UG1.D	66	66	132
UG1: Mechanical Engineering	198	198	264
PG1.A	16	16	16
PG1.B	16	16	16
PG1: Advanced Manufacturing Systems	32	32	32
DS=Total no. of students in all UG and PG programs in the Department	230	230	296
AS=Total no. of students of all UG and PG programs in allied departments	-	-	-
S=Total no. of students in the Department (DS) and allied departments (AS)	230	230	296
DF=Total no. of faculty members in the Department	20	22	19
AF= Total no. of faculty members in the allied Departments	-	-	-
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	20	22	19
FF=The faculty members in F who have a 100% teaching load in the first-year courses	6	8	5
Student Faculty Ratio (SFR)=S/(F-FF)	16.43	16.43	21.14
Average SFR for 3 years	SFR= 18.00		

C3: Faculty Qualification

Table No.C3.1: Faculty qualification

Year	X	Y	RF	$FQ = 2.5 \times [(10X + 4Y) / RF]$
CAY (2025-26)	15	5	11	38.64
CAYm1 (2024-25)	14	8	11	39.09
CAYm2 (2023-24)	11	8	14	25.36

C4: Faculty Cadre Proportion**Table No.C4.1:** Faculty cadre proportion details.

Year	Professors		Associate Professors		Assistant Professors	
	Required Faculty (RF1)	Available Faculty (AF1)	Required Faculty (RF2)	Available Faculty (AF2)	Required Faculty (RF3)	Available Faculty (AF3)
CAY (2024-25)	1	3	2	4	7	13
CAYm1(2023-24)	1	3	2	4	7	15
CAYm2(2022-23)	2	3	3	5	9	11
Average Numbers	1.33	3.00	2.67	4.33	8.00	13.00

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.

S.N.	Name of the Person	Designation & Organization	Name of the Course	No. of hours handled
2024-25 (CAYm1)				
1				
Total no. of hours:				
2023-24 (CAYm2)				
1	Prof. Sridhar Condoor	Adjunct Faculty Saint Louis University	Product Design Studio	27.00
2	Prof. Sridhar Condoor	Adjunct Faculty Saint Louis University	Machine Design	24.00
3	Mr. Arun Kumar	Visiting Faculty Redeem University	Manufacturing Technology	35.00
4	Mr. Arun Kumar	Visiting Faculty Redeem University	Materials Engineering	20.00
Total no. of hours:				106
2022-23 (CAYm3)				
1	Prof. Sridhar Condoor	Adjunct Faculty Saint Louis University	Product Design Studio	26.00
2	Mr. Arun Kumar	Visiting Faculty Redeem University	Manufacturing Technology	32.00
3	Prof. Sridhar Condoor	Adjunct Faculty Saint Louis University	Machine Design	25.00
4	Mr. Arun Kumar	Visiting Faculty Redeem University	Materials Engineering	20.00
Total no. of hours:				103

C6: Academic Research

Table No. C6.1: Faculty publication details.

S.N.	Item	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)
1	No. of peer reviewed journal papers published	24	22	16
2	No. of peer reviewed conference papers published	12	30	1
3	No. of books/book chapters published	5	6	7

C7: Sponsored Research Project

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

S.N.	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)
2024-25 (CAYm1)							
1	Ch Vinay Kumar Reddy	-	ME	Development of Advanced Functional Cotton Textiles with Enhanced UV Shielding and Moisture Regulation Using Nano-Coating Technology	Redeem Industries Private Limited	1 Year	1.80
2	Dr Santhosh Kumar Kamarapu	-	ME	Design and Development of Lightweight Honeycomb-Based Blast-Resistant Structural Panels for Aerospace and Defense Applications	Stingfly Aerospace Private Limited	1 Year	2.02
Amount received (Rs.)							3.82
2023-24 (CAYm2)							
1	Dr. Subbarao Medabalimi		ME	Thermal Shock Resistance and Mechanical Stability of WC-Based HVOF Coatings at Elevated Temperatures	Saptam Corporation	1 Year	1.67
2	Dr. P.Sammaiah		ME	An Exploratory integration of Geneva with injection molding...	DRDO	1 Year	14.16
Amount received (Rs.)							15.83
2022-23 (CAYm3)							
1	Dr. Pankaj Kumar		ME	Effect of Laser Scanning Strategies on Bend Angle Accuracy...	Stingfly Aerospace Private Limited	1 Year	1.27
2	Dr. V.Mahesh		ME	Evolution of Biofortification Research: A Co-Citation and Thematic Analysis	VMS Healthcare Private Limited	1 Year	1.15
Amount received (Rs.)							2.42
Total Amount (Lacs) Received for the Past 3 Years							22.07

C8: Consultancy Work

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

S.N.	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)
2024-25 (CAYm1)							
1	Subbarao Medabalimi		ME	Design Optimization and Performance Enhancement of Lightweight Structural Components using Advanced Materials and Simulation Techniques	Stingfly Aerospace Private Limited	10 Months	1.36
2	D Srikanth Rao		ME	Energy Efficiency Improvement and Predictive Maintenance of Industrial Machinery using Condition Monitoring Techniques	Redeem Industries Private Limited	8 Months	1.29
Amount received (Rs.)							2.65
2023-24 (CAYm2)							
1	Dr. Subodh Kumar		ME	CFD-Based Assessment of Nose Cone Shapes for Supersonic Applications	Stingfly Aerospace Private Limited	1 Year	1.24
2	Mr. Ch Vinay Kumar Reddy		ME	Mechanical and Thermal Characterization of Filler-Modified Liquid Silicone Rubber	Saptam Corporation	1 Year	1.42
3	Dr. Kafila	P Satish Kumar	ME	Cost-Performance Evaluation of Nanofluid-Based Thermal Systems in Manufacturing Industries	Saptam Corporation	6 Months	1.20
Amount received (Rs.)							3.86
2022-23 (CAYm3)							
1	Mr. Vontela Devender		ME	Effective System for Converting Biodegradable Plastic into Bags.	Redeem Industries Private Limited	6 Months	1.00
Amount received (Rs.)							1.00
Total amount (Lacs) received for the past 3 years							7.51

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

S.N.	Faculty name	Project title/ Support for Activity	Duration	Amount (Lacs)	Amount Utilized (Lacs)	Outcomes of the project
2024-25 (CAYm1)						
1						
..						
					Amount received (Rs.)	
2023-24 (CAYm2)						
1	Dr. M. Subba Rao	Microstructural Evolution and Property Assessment of Refractory....	1 year	1.32	1.32	Research Publications
					Amount received (Rs.)	
					1.32	
2022-23 (CAYm3)						
1	Dr. Ankit Dev	Experimental and Analytical Study on the Effect of Operating...	1 Year	2.00	2.00	Research Publications
					Amount received (Rs.)	
					2	
Total amount (Lacs) received for the past 3 years					3.32	

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

S. 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	Material Science Engineering Lab	30	<ul style="list-style-type: none"> • Metzer-M Binocular metallurgical microscope. Model: METZ-57 • Metzer-M inverted Binocular metallurgical microscope model: METZ-796 • Metzer-M Trinocular metallurgical microscope model METZ-780 • Colour image capture system • Geomet Junior Cut-off Machine table top • Geomet Single Disc Polisher • Geomet Hydraulic Specimen Mounting Press • Geomet Belt Grinder • Muffle furnace with digital controller • Jomminy Quench Hardness Tester with all accessories and Jomminy Specimen. • Rockwell Hardness tester • Specimen Leveller • Specimen Drier 	34.28%	Mr. Ravi	Lab.Tech	ITI (Machinist)
2	Applied Thermodynamics Lab	30	<ul style="list-style-type: none"> • Valve timing diagram of a 4-stroke Automobile engine. • I.C. Engines Morse test, cost of unit with Hydraulic dynamometer • I.C. Engine retardation test, single cylinder 4-stroke water cooled 5HP/1500RPM Diesel engine with rope Mechanical Dynamometer and facility to conduct retardation test with exhaust gas calorimeter. • COP of a Refrigeration Unit 	34.28%	Mr. Md. Muniruddin	Lab.Asst	M.Tech. (AMS)

			<ul style="list-style-type: none"> • Models of Boilers • Lancashire Boiler • Models of Boiler • Babcock and Wilcox Boiler • Cut Section 2-Stroke, Single cylinder engine port timing diagram. • I.C. Engine Motoring test, Single cylinder 4-stroke, 3000RPM air-cooled Petrol Engine test Rig with electrical dynamometer and exhaust gas calorimeter. • Performance of A/C • Performance Test on Reciprocating Air Compressor Unit Single Stage, Single Cylinder 2HP Air Compressor Test Rig • Disassembly/Assembly of Engines Three Cylinder Four stroke water cooled petrol engine(used) make Maruthi • Morse Test & Performance Study of multicylinder S.I. Engine with Hydraulic dynamometer Test Rig • Variable Compression Ratio Petrol Engine Test Rig with DC Generator and Resistance Load Bank (DC supply unit to conduct Motoring Test) • Single Cylinder 2-Stroke Petrol Engine Test Rig (DC supply unit to conduct motoring test) 				
3	Fluid Mechanics Lab	30	<ul style="list-style-type: none"> • Impact of Jet on Vanes Apparatus. • Bernoulli's Theorem Apparatus. • Apparatus for determination of CD of Notches • Venturimeter Orificemeter Calibration Apparatus. • Study of Losses in pipe lines(major & minor apparatus) • Centrifugal Pump Test ring -single speed & variable speed. • Multi Stage Centrifugal pump test ring. • Variable Speed reciprocating pump test ring. • Pelton Wheel turbine test ring (1 KW output) • Francis Turbine test ring (1 kw out put) • Kaplan Turbine test ring (1 kw output) • Apparatus for Determination of Discharge (cd) Through Orifice & External Mouth Piece with SS Tank Model: FM04B • Hydraulic Jump Test Setup with SS Tank Model:FM21 Closed Circuit 	34.28%	Mr. Md. Muniruddin	Lab.Asst	M.Tech. (AMS)
4	Mechanics of	30	<ul style="list-style-type: none"> • Universal Testing Machine UTM 40 	34.28%	Mr Ravi	Lab.Tech	ITI

	Solids Lab		<ul style="list-style-type: none"> • Model : UTM 1B • Torsion Testing Machine 50kg Capacity Model: AMT 3D • Rockwell Hardness Tester Model: RKWHT • Impact Tester for Izod & Charpy Tests Model: MAT 8 • Deflection Testing Apparatus on simple beam Model: DTAB 22 • Spring Testing Machine Model: STM 300 • Cantilever & Continuous Beam • Electrical Resistance Gauge • Brinell Microscope • Brinell Hardness Tester 				(Machinist)
5	Manufacturing Technology Lab	30	<ul style="list-style-type: none"> • ARC welding set, oil cooled with accessories • Power Press (10 Tonnes) • Hydraulic Press (40 Tonnes) • Injection moulding machine (30 gm capacity) • Blow moulding machine (15 gm) • Rocker arm type spot welding machine (Capacity 6 KVA) • Wood turning lathe heavy duty machine • Single body fly press (NO.6) • Suitable dies for making piercing and blanking • Plasma welding machine • Mould for round bottle 150 ml • Mould for Key chain • 50 kg Sand Muller • Rapid moisture tester • Sand rammer • Permeability • Mould Hardness tester • Green compression strength machine • Argon Arc Tig welding Plant 200 amps with standard accessories. • Wood turning lathe with 1HP3PH Electric Motor (Rajkot, Gujarat Make) • Gas Welding (Regulator, Welding Touch, Hose Pipe) 	80.00%	Mr. Eshwara Chary	Lab.Tech	Diploma (ME)
6	Heat Transfer Lab	30	<ul style="list-style-type: none"> • Thermal Conductivity of Metal Rod • Stefan Boltzman apparatus • Heat transfer through composite wall apparatus • Lagged pipe 	34.28%	Mr. Md. Muniruddin	Lab.Asst	M.Tech. (AMS)

			<ul style="list-style-type: none"> • Forced convection apparatus • Natural convection apparatus • Thermal Conductivity of insulation powder • Parallel flow/counter flow heat exchanger • Apparatus for determination of Emissivity • Pin-Fin Apparatus • Heat pipe demonstrator • Critical Heat flux apparatus • Unsteady State Heat Transfer/Transient Heat Transfer • Condensation in drop wise & Flimwise • Twophase Heat transfer Apparatus (Boiling heat transfer unit) 				
7	Machine Tools Lab	30	<ul style="list-style-type: none"> • Master Model SONA Bed Length 4 1/2' Precision Grade-I accuracy Lathe Machines with Accessories • Master Surface Grinder. Size 18"X6" with accessories • "Unittech All Geared Lathe Machine 1340 with accessories" • Master 6" Slotting Machine • Master 8" Tool and Cutter Grinder with accessories. • SMTR-2" Autofeed Radial Drilling Machine with accessories. • SAGAR / RAMAN Shaping Machine All geared model hevy duty capacity 18" stroke 2 H.P. 1440 RPM Electrical motor DOL starter 'V' belt. (Tool box kit) • "SURAJ"" UNIVERSAL MILLING MACHINE: Indian make ""Master"" model ""Suraj"" (Gujarat Make) supplied with Motorisation attachment, motor pulley, suitable AC/3 PH electric motor and starter. MODEL: SM-II" • Cylindrical Grinder Machine • Planing Machine 	34.28%	Mr. Muniruddin	Lab.Asst	M.Tech. (AMS)
8	Product Design Studio	30	<ul style="list-style-type: none"> • 9" Jack Plane • 6" Carpenter Bench Vice • 8" "C" Clamps • Marking Gauge • Steel Rule • 6" Try Square 	45.71%	Mr. Naveen Ch.	Lab.Asst	Diploma (ME)

			<ul style="list-style-type: none"> • 12" Try Square • Chisels • Hand Saw • Tenonsaw • 2 Lb Nylon Mallet • 8" Wood Rough File • 3/4" Ager • 200gm Ball Pean Hammer • Multitester • Hand Drilling Machines(1/2") • Hand Drilling Machines(1/4") • Impact Drilling Machine • Claw Hammer • Wooden Mallet • Outside Calipers • Inside Calipers • Hammers • Bevel Protractor • Centre Punch • Flat Chisel • Number Punch • Letter Punch • Snips • Scribes • Divider • Stakes • Side Cutter • Tester • Solder Iron • Wire Gauge • Breath Analyzer (Digital Alcohol Tester) • Breath Analyzer (Digital Alcohol Tester) • Computer • (Desktop 280 G4 MT (3SA07AV) (15)-HP)" • 3-D Printer (Flage Forge Finder, Flage Forge Dreammer dual extruder) 				
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			<ul style="list-style-type: none"> • GSB-550XL Home smart kit • GWS-600 Angle Grinder Machine • GHO-6500 Planner • GST-85PPBE Jig Saw Machine • GDC-120 Marble Cutter • Dremel 3000 2/30 • Power Drill Machine • GKS235 Circular Saw • GST 150BCE Jig Saw • GHO-26-82 Planner • GMR1 Router • POF-1400 Router Machine • GWS750-100 Angle Grinding Machine • GCO-220 Chop Saw • GAS 15L Vaccum Cleaner • Formlabs-2 3D printer with Excise Duty Exemption • Laser Engraver EVA 43 (Model NO.EVA 43) • GSR6-25 TE Screw Driver 				
9	Metrology Lab	30	<ul style="list-style-type: none"> • Mitutoyo Make Outside Micrometer 0-25 mm • Vernier Caliper 0-150 mm • Jafuji Magnetic Stand JMB-103 • Digital Vernier Caliper 0-150 mm(Mitutoyo) • Slip Guage Set • Outside Micrometer 0-25 mm • Outside Micrometer 25-50 mm • Vernier Caliper 0-150 mm • Vernier Caliper 0-200 mm • Vernier Beval Protractor • Combination Set • Vernier Height Guage 12"/300 mm • Inside Micrometer 5-30 mm • Gear Tooth Micrometer • Mitutoyo Bore Guage with dial L.C. 0.01 mm. Size 18 X 35mm • Sine Bar. Size 100 mm • Granite Surface Plate. Jafuji make. Size 630 X 630 mm with stand. 	34.28%	Mr. Md. Muniruddin	Lab.Asst	M.Tech. (AMS)

			<ul style="list-style-type: none"> • Spirit Level. Jafuji make. Size 150 mm. • Tool Makers Microscope with stand Accessories. Metzer Indian make. • Three Wire set • Mitutoyo Make Outside Micrometer 0-25 mm • Mitutoyo Make Outside Micrometer 0-25 mm • Mitutoyo Make Dial Gauge 0.01-10mm • Mitutoyo Make Dial Gauge 0.01-20mm • Mitutoyo Make Dial Gauge 0.01-30mm • Slip Guage Set • Outside Micrometer • Inside Micrometer • Surface Plate 				
10	CAD / CAM Lab	30	<ul style="list-style-type: none"> • Solid works – 30users • CADEEM turning and milling Software 5- user • Autodesk Auto CAD 2007 – 5 user • Fusion 360 • Pro –E 3.0 – 2010 – 30 User • Ansys 17.0 – 30User • FlexSIM 5 user • Catia V5 – 5 user • Creo 5.0 Student 	45.71%	Mr. Naveen Ch.	Lab.Asst	Diploma (ME)

D2: Safety Measures in Laboratories

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

S. No.	Laboratory Name	Safety Measures
1	Material Science and Engineering Lab	Safety instructions related to furnaces, polishing machines and chemical handling are displayed. First Aid Box with burn treatment materials is available. • Proper earthing of furnaces and grinding machines is ensured. • Students are instructed to wear lab apron, gloves and safety goggles. • Handling of hot specimens is done using proper tools. • Fire extinguishers are provided near furnace area.
2	Mechanics of solid lab	Laboratory safety rules and operational guidelines are displayed. • First Aid Box is maintained in the laboratory. • Proper earthing and safe electrical connections for testing machines are ensured. • Students are instructed to stand at a safe distance during fracture and impact tests. • Overloading of machines is strictly prohibited. • Fire extinguishers are installed at accessible locations.
3	Manufacturing technology lab	Detailed safety instructions related to welding, presses and moulding machines are displayed. • First Aid Box is provided with burn and injury treatment facilities. • Proper earthing and insulation of all heavy machines are ensured. • Students are required to wear safety shoes, welding helmets, gloves and apron. • Gas cylinders are stored and handled as per safety norms. • Fire extinguishers and sand buckets are provided at multiple locations.
4	Applied Thermodynamics Lab	Specific safety rules like Do's and Don'ts are displayed and instructed to all students. • First Aid Box is kept in the laboratory. • Proper earthing and good quality electrical wiring, cables and power sockets are maintained. • Students are required to wear lab apron and safety shoes. • The use of mobile phones inside the laboratory is strictly prohibited. • Fire extinguishers are provided at appropriate locations. • Adequate ventilation is ensured for exhaust gases from IC engines.
5	Fluid Mechanics & Hydraulics Machinery Lab	Do's and Don'ts related to hydraulic and rotating machinery are displayed. • First Aid Box is maintained in the laboratory. • Proper earthing and insulation of electrical motors and pumps are ensured. • Students are instructed to avoid water spillage on the floor to prevent slipping. • Fire extinguishers are placed at suitable locations. • Valves and pressure lines are operated only under staff supervision.
6	Machine Tools Lab	Machine-specific Do's and Don'ts are displayed near each machine. • First Aid Box is kept in the laboratory. • Proper earthing and guarding of rotating parts are ensured. • Students are instructed to avoid loose clothing and jewelry. • Chips are removed using brushes only. • Emergency stop switches and fire extinguishers are provided.
7	CAD/CAM Lab	Safety instructions and laboratory rules are displayed prominently. • First Aid Box is available in the laboratory. • Proper earthing, UPS and surge protection are provided for all computer systems. • Students are instructed to maintain proper seating posture to avoid ergonomic issues. Food and beverages are not allowed inside the laboratory. • Fire extinguishers are installed near electrical panels.

8	Heat Transfer Lab	Safety instructions related to high temperature equipment are displayed. • First Aid Box is available in the laboratory. • Proper earthing and insulation of heaters and electrical instruments are ensured. • Students are instructed to avoid direct contact with hot surfaces. • Adequate ventilation is maintained. • Fire extinguishers are installed near experimental setups.
9	Metrology Lab	Safety instructions for handling precision instruments are displayed. • First Aid Box is maintained in the laboratory. • Proper earthing and stable electrical supply are ensured. • Students are instructed to handle instruments carefully to avoid damage and injury. • Clean and dust-free environment is maintained. • Fire extinguishers are provided near laboratory entrance.
10	Product Design Studio	Safety guidelines for hand tools, power tools, 3D printers and laser engravers are displayed. • First Aid Box is available in the studio. • Proper earthing of electrical and electronic equipment is ensured. • Students are instructed to wear safety goggles during cutting and grinding operations. Laser engraving is carried out under supervision. • Fire extinguishers are installed at suitable locations.

D3: Project Laboratory/Research Laboratory

Table No. D3.1: List of project laboratory/research laboratory /Centre of Excellence.

S. No.	Name of the Laboratory
1	Centre for Materials and Manufacturing
2	Nest for Entrepreneurship in Science & Technology
3	Collaboratory for Social Innovation
4	Center for Creative Cognition

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
CAY (2025-26)	60	3	4	6	146.67
CAYm1 (2024-25)	60	3	4	4	133.33
CAYm2 (2023-24)	60	3	4	4	133.33
Average Percentage:					133.78

E2: Budget Allocation, Utilization, and Public Accounting at Institute Level

Table No. E2.1: Budget and actual expenditure incurred at Institute level.

Items	Budgeted in 2025-26	Actual Expenses in 2025-26 till Feb 2026	Budgeted in 2024-25	Actual Expenses in 2024-25	Budgeted in 2023-24	Actual Expenses in 2023-24	Budgeted in 2022-23	Actual Expenses in 2022-23
Infrastructure Built-Up	32,00,00,000	30,74,72,887	27,00,00,000	26,09,61,228	15,00,00,000	14,13,89,016	11,00,00,000	10,92,08,830
Library	1,10,00,000	1,02,18,228	1,00,00,000	95,86,452	90,00,000	87,10,496	50,00,000	47,69,512
Laboratory equipment	3,50,00,000	3,24,64,442	3,00,00,000	2,56,00,070	2,50,00,000	2,32,41,873	2,10,00,000	2,00,07,583
Teaching and non-teaching staff salary	70,00,00,000	68,47,27,810	67,00,00,000	65,37,24,738	60,00,00,000	58,73,38,069	39,00,00,000	38,47,65,924
Outreach Programs	4,50,00,000	4,25,63,897	4,00,00,000	3,84,62,784	2,90,00,000	2,76,85,254	78,00,000	76,97,353
R&D	2,85,00,000	2,78,81,002	1,50,00,000	1,43,56,277	1,10,00,000	1,05,60,245	35,00,000	31,86,050
Training, Placement and Industry linkage	1,40,00,000	1,27,63,481	1,20,00,000	1,15,62,313	73,00,000	71,25,009	90,00,000	87,07,742
SDGs	70,00,000	61,54,238	55,00,000	54,63,534	50,00,000	48,66,025	1,15,00,000	1,13,94,225
Entrepreneurs hip	40,00,000	36,93,623	30,00,000	29,78,652	20,00,000	19,86,423	16,00,000	15,47,632
Others*,pl. specify	60,00,00,000	57,63,95,715	50,00,00,000	49,07,01,951	30,00,00,000	27,23,47,508	20,00,00,000	18,67,26,285
Total amount	1,76,45,00,000	1,70,43,35,323	1,55,55,00,000	1,51,33,97,999	1,13,83,00,000	1,08,52,49,918	75,94,00,000	73,80,11,136

E3: Budget Allocation, Utilization, and Public Accounting at Program Specific Level

Items	Budgeted in 2025-26	Actual Expenses in 2025-26 till Feb-2026	Budgeted in 2024-25	Actual Expenses in 2024-25	Budgeted in 2023-24	Actual Expenses in 2023-24	Budgeted in 2022-23	Actual Expenses in 2022-23
Laboratory equipment	6,00,000	5,68,230	8,00,000	7,96,800	11,00,000	10,86,250	21,00,000	20,48,623
Software	3,00,000	2,45,365	6,50,000	6,00,000	1,00,000	71,530	1,00,000	60,048
SDGs	2,50,000	1,75,864	1,50,000	1,38,813	1,50,000	1,33,687	3,00,000	2,94,812
Support for faculty development	8,00,000	7,86,939	6,00,000	5,61,379	5,00,000	4,56,784	3,00,000	2,96,359
R & D	5,00,000	4,67,903	5,00,000	4,46,471	5,00,000	4,32,258	2,00,000	1,94,280
Industrial Training, Industry expert, Internship	6,00,000	5,39,458	5,00,000	4,96,510	8,00,000	7,54,984	5,00,000	4,20,015
Miscellaneous expenses*	19,50,000	17,72,219	9,00,000	7,99,347	9,00,000	8,73,277	8,50,000	8,21,987
Total amount	50,00,000	45,55,978	41,00,000	38,39,320	40,50,000	38,08,770	43,50,000	41,36,124