NATIONAL BOARD OF ACCREDITATION

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

Note: To save Data Capturing Points as PDF Please click on print button and select destination as 'Save as PDF'. PLEASE SELECT LANDSCAPE MODE.

Program Name : Mechanical Engineering	**Discipline**: Engineering & Technology
Level : Under Graduate	**Tier**: 1
Application No: 10915	**Date of Submission**: 31-07-2025

PART A- Profile of the Institute

A1.Name of the Institute: SRI VASAVI ENGINEERING COLLEGE	
Year of Establishment : 2001	Location of the Institute: TADEPALLIGUDEM
A2. Institute Address:SRI VASAVI ENGINEERING COLLEGE	
City:PEDATADEPALLI, TADEPALLIGUDEM	State:Andhra Pradesh
Pin Code:534101	Website:www.srivasaviengg.ac.in
Email:SVEC.A8@GMAIL.COM	Phone No(with STD Code):08818-284355
A3. Name and Address of the Affiliating University (if any):	
Name of the University : JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA	City: West Godavari
State : Andhra Pradesh	Pin Code: 534101
A4. Type of the Institution: Self-Supported Institute	
A5. Ownership Status: State Government	

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

- No. of UG programs: **10**
- No. of PG programs: **5**

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	Artificial Intelligence and Machine Learning	2021	--	Artificial Intelligence and Machine Learning
2	Engineering & Technology	UG	Civil Engineering	2011	--	Civil Engineering
3	Engineering & Technology	PG	Computer Science	2021	--	Computer Science and Engineering
4	Engineering & Technology	UG	Computer Science & Technology	2019	--	Computer Science and Technology
5	Engineering & Technology	UG	Computer Science and Engineering	2001	--	Computer Science and Engineering
6	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence)	2021	--	Computer Science and Engineering (Artificial Intelligence)
7	Engineering & Technology	UG	Computer Science and Engineering (Data Science)	2024	--	Computer Science and Engineering (Data Science)
8	Engineering & Technology	UG	Electrical and Electronics Engineering	2002	--	Electrical and Electronics Engineering
9	Engineering & Technology	UG	Electronics & Communication Engineering	2001	--	Electronics and Communication Engineering
10	Engineering & Technology	UG	Electronics & Communication Technology	2019	--	Electronics and Communication Technology
11	Engineering & Technology	PG	Embedded System & VLSI	2019	--	Electronics and Communication Engineering
12	Engineering & Technology	UG	Mechanical Engineering	2010	--	Mechanical Engineering

13	Engineering & Technology	PG	Power Electronics & Power Systems	2021	--	Electrical and Electronics Engineering
14	Engineering & Technology	PG	Structural Engineering	2016	2024	Civil Engineering
15	Engineering & Technology	PG	Thermal Engineering	2021	--	Mechanical Engineering

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

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

Name of the Department	Having Allied Departments	Name of the Program	Program Level
Mechanical Engineering	No	Mechanical Engineering	UG
Electronics and Communication Engineering	Yes	Electronics & Communication Engineering	UG

Table No. A7.2: Allied Department(s) to the Department of the program considered for accreditation as above.
Cluster ID. Name of the Department (in table no. A7.1) Name of allied Departments/Cluster (for table no. A7.1)

No Record

PART-B: Program information

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

Table No. B1: Program details.
A. List of the Programs Offered by the Department:

SR.NO.	PROGRAM NAME	PROGRAM APPLIED LEVEL	YEAR OF START / YEAR OF CLOSED	SANCTIONED INTAKE	INCREASE/DECREASE INTAKE (if any)	YEAR OF INCREASE/DECREASE	CURRENT INTAKE	YEAR OF AICTE APPROVAL	AICTE/COMPETENT AUTHORITY ARRO DETAILS
1	Mechanical Engineering	UG	2010 / --	60	Yes	2022	90	2022	South Central/1-10975339158/2022/E 03-07-2022

Sanctioned Intake for Last Five Years for the Thermal Engineering	
Academic Year	**Sanctioned Intake**
2024-25	90
2023-24	90
2022-23	90
2021-22	120
2020-21	120
2019-20	120

List of the Allied Departments/Cluster and Programs:

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

A. Name of the HoD :	Dr.M.V.Ramesh
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)	90	90	90	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	77	75	69	81	91	61	83
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	18	20	45	49	57	50
N3=Separate division if any	0	0	0	0	0	0	0
N4=Total no. of students admitted in the 1st year via all supernumerary quotas	0	0	0	0	0	0	0
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	77	93	89	126	140	118	133

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)	90	77	0	85.56
2023-24 (CAYm1)	90	75	0	83.33
2022-23 (CAYm2)	90	69	0	76.67

Average [(ER1 + ER2 + ER3) / 3] = 81.85≡ 17.00

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

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

Item	(2020-21) LYG	(2019-20) LYGm1	(2018-19) LYGm2
A*= (No. of students admitted in the 1st year of that batch and those actually admitted in the 2nd year via lateral entry, plus the number of students admitted through multiple entry (if any) and separate division if applicable, minus the number of students who exited through multiple entry (if any).	169.00	177.00	170.00
B=No. of students who graduated from the program in the stipulated course duration	128.00	115.00	121.00
Success Rate (SR)= (B/A) * 100	75.74	64.97	71.18

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 70.63

B6. Academic Performance of the First-Year Students of the Program

Table No.B6.1: Academic Performance of the First-Year Students of the Program.

Academic Performance	CAYm1(2023-24)	CAYm2(2022-23)	CAYm3 (2021-22)
Mean of CGPA or mean percentage of all successful students(X)	4.43	6.00	6.73
Y=Total no. of successful students	69.00	67.00	78.00
Z=Total no. of students appeared in the examination	75.00	69.00	81.00
API [X*(Y/Z)]	4.08	5.83	6.48

Average API[(AP1+AP2+AP3)/3] : 5.46

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

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

Academic Performance	CAYm1 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-22)
X=(Mean of 2nd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2rd year/10)	6.40	7.17	7.50
Y=Total no. of successful students	85.00	124.00	131.00
Z=Total no. of students appeared in the examination	87.00	123.00	138.00

API [X * (Y/Z)]	6.25	7.23	7.12

Average API [(AP1 + AP2 + AP3)/3] : 6.87

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)	7.12	7.77	7.38
Y=Total no. of successful students	124.00	130.00	115.00
Z=Total no. of students appeared in the examination	124.00	131.00	116.00
API [X*(Y/Z)]:	7.12	7.71	7.31

Average API [(AP1 + AP2 + AP3)/3] : 7.38

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	169.00	177.00	170.00
X=No. of students placed	101.00	96.00	122.00
Y=No. of students admitted to higher studies	4.00	3.00	6.00
Z= No. of students taking up entrepreneurship	4.00	4.00	4.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	64.50	58.19	77.65

Average Placement Index = (P_1 + P_2 + P_3)/3: 66.78 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)	Cu As (Y
1	Dr. Guduru V N S R Ratnakara Rao	XXXXXXX18F	Ph.D	JNTUH	Bio fuels for IC Engines	04/12/2013	11.7	Professor	Professor	04/12/2013	Regular	Ye
2	Dr.M.V.Ramesh	XXXXXXX07F	Ph.D	St. Peters University	Bio fuels for IC Engines	06/03/2017	8.4	Professor	Professor	06/03/2017	Regular	Ye
3	Dr. P.N.V.Gopala Krishna	XXXXXXX85N	Ph.D	Andhra University	Thermal Engineering	01/08/2001	24	Assistant Professor	Associate Professor	01/07/2010	Regular	Ye
4	K.S.B.S.V.S.Sastry	XXXXXXX11B	M.Tech	Andhra University	Mineral Process Engineering	07/07/2011	14	Associate Professor	Associate Professor	07/07/2011	Regular	Ye
5	K.Sri Rama Murthy	XXXXXXX19L	M.Tech	JNTUH	Thermal Engineering	09/06/2014	11.1	Assistant Professor	Assistant Professor		Regular	Ye
6	G.Rama Prasad	XXXXXXX82L	M.Tech	JNTUK	Machine Design	01/10/2008	16.9	Assistant Professor	Assistant Professor		Regular	Ye
7	B.N.V.Srinivas	XXXXXXX84A	M.Tech	JNTUK	CAD/CAM	20/05/2013	12.2	Assistant Professor	Assistant Professor		Regular	Ye
8	T.S.S.R.Krishna	XXXXXXX09D	M.Tech	JNTUK	CAD/CAM	12/04/2013	12.3	Assistant Professor	Assistant Professor		Regular	Ye
9	Dr. S.Chandrasekhar	XXXXXXX63P	Ph.D	K L University	Manufacturing Engineering	09/06/2014	11.1	Assistant Professor	Assistant Professor		Regular	Ye
10	K.C.S.Vyasa Krishnaji	XXXXXXX38K	M.Tech	Kakatiya University	CAD/CAM	17/08/2015	9.11	Assistant Professor	Assistant Professor		Regular	Ye

11	G.Prasanth	XXXXXXX94E	M.Tech	Andhra University	Machine Design	09/12/2015	9.7	Assistant Professor	Assistant Professor		Regular	Ye
12	T.Atma Ramudu	XXXXXXX51N	M.Tech	NIT Tiruchirappalli	Materials Science and Engineering	06/10/2016	8.9	Assistant Professor	Assistant Professor		Regular	Ye
13	Dr. D.V.N.Prabhakar	XXXXXXX59E	Ph.D	JNTUK	Machine Vision	01/06/2017	8.1	Assistant Professor	Assistant Professor		Regular	Ye
14	M.D.Nagendra Prasad	XXXXXXX11E	M.Tech	NIT Tiruchirappalli	Welding Engineering	01/02/2020	5.5	Assistant Professor	Assistant Professor		Regular	Ye
15	M.Venkatesh	XXXXXXX30J	M.Tech	University of Hyderabad	Materials Engineering	30/11/2020	4.7	Assistant Professor	Assistant Professor		Regular	Ye
16	M.Chaitanya	XXXXXXX51N	M.Tech	Acharya Nagarjuna Univerisity	CAD/CAM	03/12/2020	4.7	Assistant Professor	Assistant Professor		Regular	Ye
17	Sk.Arief	XXXXXXX08N	M.Tech	JNTUK	Thermal Engineering	11/01/2021	4.6	Assistant Professor	Assistant Professor		Regular	Ye
18	V.Ravi Kumar	XXXXXXX45Q	M.Tech	JNTUK	CAD/CAM	01/11/2021	3.8	Assistant Professor	Assistant Professor		Regular	Ye
19	Dr. K.Dorathi	XXXXXXX41N	Ph.D	GITAM University	composite materials	15/06/2012	13.1	Assistant Professor	Associate Professor	01/10/2022	Regular	Ye
20	P.Dhananandh	XXXXXXX88F	M.Tech	JNTUK	Machine Design	11/01/2021	4.6	Assistant Professor	Assistant Professor		Regular	Ye
21	Dr. S.S.R.Kousik	XXXXXXX20E	Ph.D	NIT Puducherry	Thermal Engineering	10/10/2022	2.9	Assistant Professor	Associate Professor	14/07/2025	Regular	Ye
22	M.V.S.S.D.S.Surya Pavan	XXXXXXX12C	M.Tech	NIT Rourkela	Metallurgical & Materials Engineering	06/10/2023	1.9	Assistant Professor	Assistant Professor		Regular	Ye
23	Dr. K.Bala Subrahmanyam	XXXXXXX63M	Ph.D	NIT Agartala	Heat Transfer	01/07/2024	1	Assistant Professor	Assistant Professor		Regular	Ye
24	Dr. D.Ashok	XXXXXXX14R	Ph.D	NIT Puducherry	Additive Manufacturing	01/08/2024	0.11	Assistant Professor	Assistant Professor		Regular	Ye
25	K.Suchendra Kumar	XXXXXXX91A	M.Tech	JNTUK	Machine Design	01/08/2024	0.11	Assistant Professor	Assistant Professor		Regular	Ye
26	P.Mohanakrishna	XXXXXXX69R	M.Tech	JNTUK	Machine Design	01/08/2024	0.11	Assistant Professor	Assistant Professor		Regular	Ye
27	M.Veera Nagendra	XXXXXXX34P	M.Tech	NIT Warangal	Industrial Metallurgy	05/02/2020	3.8	Assistant Professor	Assistant Professor		Regular	No
28	K.L.S.Lalithya	XXXXXXX83D	M.Tech	JNTUK	Advanced Manufacturing Systems	15/04/2021	3.1	Assistant Professor	Assistant Professor		Regular	No
29	B.Swapna Babu	XXXXXXX99Q	M.Tech	K L University	Thermal Engineering	01/12/2020	2.5	Assistant Professor	Assistant Professor		Regular	No
30	G.Veera Subhash	XXXXXXX21B	M.Tech	Anna University	Internal Combustion Engineering	22/04/2021	1.7	Assistant Professor	Assistant Professor		Regular	No
31	T.Raja Rao	XXXXXXX58Q	M.Tech	JNTUK	Thermal Engineering	01/08/2022	1.3	Assistant Professor	Assistant Professor		Regular	No
32	S.Suneel Kumar	XXXXXXX24B	M.Tech	JNTU AP	Advanced Manufacturing Systems	27/10/2021	1.6	Assistant Professor	Assistant Professor		Regular	No
33	K.Satish Kumar	XXXXXXX59F	M.Tech	JNTUK	Machine Design	01/09/2021	1.8	Assistant Professor	Assistant Professor		Regular	No
34	N.Chennaiah	XXXXXXX32N	M.Tech	Amritha University	Manufacturing Engineering	10/10/2022	0.4	Assistant Professor	Assistant Professor		Regular	No
35	D.Ayyappa	XXXXXXX10Q	M.Tech	JNTUK	Machine Design	21/10/2019	5.9	Assistant Professor	Assistant Professor		Regular	Ye

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

C2. Student-Faculty Ratio (SFR)

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

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

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

Description	**CAY(2024-25)**	**CAYm1 (2023-24)**	**CAYm2 (2022-23)**
UG1.B	99	99	132
UG1.C	99	132	132
UG1.D	132	132	132
UG1: Mechanical Engineering	**330**	**363**	**396**
PG1.A	6	6	6
PG1.B	6	6	18
PG1: Thermal Engineering	**12**	**12**	**24**
DS=Total no. of students in all UG and PG programs in the Department	342	375	420
AS=Total no. of students of all UG and PG programs in allied departments	0	0	0
S=Total no. of students in the Department (DS) and allied departments (AS)	**S1=** 342	**S2=** 375	**S3=** 420
DF=Total no. of faculty members in the Department	27	23	27
AF= Total no. of faculty members in the allied Departments	0	0	0
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	**F1=** 27	**F2=** 23	**F3=** 27
FF=The faculty members in F who have a 100% teaching load in the first-year courses	5	4	4
Student Faculty Ratio (SFR)=S/(F-FF)	**SFR1= 15.55**	**SFR2= 19.74**	**SFR3= 18.26**
Average SFR for 3 years	**SFR= 17.85**		

C3. Faculty Qualification

- Faculty qualification index (FQI) = 2.5 * [(10X +4Y)/RF] where
- X=No. of faculty members with Ph.D. degree or equivalent as per AICTE/UGC norms.
- Y=No. of faculty members with M. Tech. or ME degree or equivalent as per AICTE/ UGC norms.
- RF=No. of required faculty in the Department including allied Departments to adhere to the 20:1 Student-Faculty ratio, with calculations based on both student numbers and faculty requirements as per section C2 of this documents: (RF=S/20).

Table No.C3.1: Faculty qualification.

Year	**X**	**Y**	**RF**	**FQ = 2.5 x [(10X + 4Y) / RF)]**
2024-25(CAY)	7	20	17.00	22.06
2023-24(CAYm1)	4	19	18.00	16.11
2022-23(CAYm2)	3	24	20.00	15.75

C4. Faculty Cadre Proportion

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

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

Year	Professors		Associate Professors		Assistant Professors	
	Required RF1	Available AF1	Required RF2	Available AF1	Required RF3	Available AF3
2024-25	1.00	2.00	3.00	2.00	11.00	23.00
2023-24	2.00	2.00	4.00	1.00	12.00	20.00
2022-23	2.00	2.00	4.00	0.00	14.00	25.00
Average	RF1=1.67	AF1=2.00	RF2=3.67	AF2=1.00	RF2=12.33	AF2=22.67

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	Sri. S S Subramanya Sastry	Project Head	Veave Technologies, Bangalore.	Solidworks software	30.00
2	Sri. S S Subramanya Sastry	Project Head	Veave Technologies, Bangalore.	CATIA	26.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dr.A.Krishnaiah	Professor	Department of Mechanical Engineering, Osmania University, Hyderabad	Metal Cutting & Machine Tools	26.00
2	Dr.A.Krishnaiah	Professor	Department of Mechanical Engineering, Osmania University, Hyderabad	Manufacturing Science with Artificial Intelligence	26.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dr. R V Chalam	Retired Professor	Department of Mechanical Engineering, NIT Warangal	Design of Machine Members – I	28.00
2	Dr. R V Chalam	Retired Professor	Department of Mechanical Engineering, NIT Warangal	Design of Machine Members – II	28.00

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	16	4	9
2	No. of peer reviewed conference papers published	3	4	2
3	No. of books/book chapters published	0	0	0

C7. Sponsored Research Project

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

(CAYm1)

(CAYm2)

(CAYm3)

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

Note*:

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

C8. Consultancy Work

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

(CAYm1)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr. M. V. Ramesh	Dr. B N V Srinivas	Mechanical Engineering	Material Testing	Sri Godavari Engineering Consultants (India) Pvt. Ltd.	30 days	3.50
Dr. M. V. Ramesh	Dr. B N V Srinivas	Mechanical Engineering	Material Testing	S Surya Prasad	3 days	0.12
Dr. M. V. Ramesh	Dr. B N V Srinivas	Mechanical Engineering	Material Testing	B N V Narasimha Rao	3 days	0.12
Dr. M. V. Ramesh	Dr. B N V Srinivas	Mechanical Engineering	Steel Testing	Nagi Reddy & Company	3 days	0.10
Dr. M. V. Ramesh	Dr. B N V Srinivas	Mechanical Engineering	Concrete Cube Testing	Z.P.H.S Kadiyadda	1 day	0.01
						Amount received (Rs.):3.85

(CAYm2)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr. M. V. Ramesh	Dr. B N V Srinivas	Mechanical Engineering	Concrete and Material Testing	M/S Godavari Engineering Consultancy Pvt Ltd	20 days	2.50
Dr. M. V. Ramesh	Dr. B N V Srinivas	Mechanical Engineering	Concrete Cube Testing	A S Infra	7 days	0.43
Dr. M. V. Ramesh	Dr. B N V Srinivas	Mechanical Engineering	Brick Testing	T. Suresh Babu (Dr. YSRHU)	3 days	0.01
Dr. M. V. Ramesh	Dr. B N V Srinivas	Mechanical Engineering	Reinforcement Steel Testing	S S Engineering Corporation	3 days	0.03
Dr. M. V. Ramesh	Dr. B N V Srinivas	Mechanical Engineering	Concrete Cube Testing	Head Master, GHS, Polavaram	3 days	0.05
Dr. M. V. Ramesh	Dr. B N V Srinivas	Mechanical Engineering	Concrete Cube Testing	Head Master, MPPS, Pattisem	5 days	0.10
Dr. M. V. Ramesh	Dr. B N V Srinivas	Mechanical Engineering	Concrete Cube Testing	Head Master, MPPS-I, Polavaram	5 days	0.10
						Amount received (Rs.):3.22

(CAYm3)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr. M. V. Ramesh	Dr. M. V. Ramesh	Mechanical Engineering	Concrete Cube Testing	M/S Godavari Engineering Consultancy Pvt Ltd	15 days	1.50
						Amount received (Rs.):1.50

Total amount (Lacs) received for the past 3 years: 8.57

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
Mr. D. V. N. Prabhakar	Analysis of Surface Roughness on Machining of Aluminium and its alloys in CNC Lathe Machine	4 Years	3.70	3.50	Experimental dataset of machining parameters vs. surface roughness values for aluminum alloys.
			Amount received (Rs.): 3.70		

(CAYm2)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Dr. Subbarama Kousik Suraparaju	Solar Energy Laboratory	1 year	2.20	2.20	Solar Thermal Systems, 10 B. Tech Projects, 2 M.Tech Projects, More than 10 SCI Journal Publications
			Amount received (Rs.): 2.20		

(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
Mr. S Chandrasekhar	Modelling and Simulation	3 years	3.10	3.10	4 workstations, 5 Projects and interdisciplinary research.
			Amount received (Rs.): 3.10		

Total amount (Lacs) received for the past 3 years : 9.00

PART D: Laboratory Infrastructure in the Department

(Data to be filled in for the Department)

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

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

Sr. No	Name of the Laboratory	Number of students per set up(Batch Size)	Name of the Important Equipment	Weekly utilization status(all the courses for which the lab is utilized)	Technical Manpower Support		
					Name of the Technical staff	Designation	Qualification
1	Engineering workshop	1	Carpentry vice, hand saws, metal jackplanes, Bench vice, surface	36 Hours/week	Ch. Naga Bab	Lab Technician	DME
2	Engineering workshop	1	Carpentry vice, hand saws, metal jackplanes, Bench vice, surface	36 Hours/week	B.Kishore	Lab Technician	DME
3	Engineering workshop	1	Carpentry vice, hand saws, metal jackplanes, Bench vice, surface	36 Hours/week	Y.Narasimha F	Lab Technician	DME
4	Engineering workshop	1	Carpentry vice, hand saws, metal jackplanes, Bench vice, surface	36 Hours/week	J. Sivaprasad	Lab Technician	I.T.I
5	Engineering Mechanics	5	Parallelogram Law of Forces, Triangle Law of Forces, Static and	6 Hours/week	Ch. Naga Bab	Lab Technician	DME
6	Mechanics of Solids and Materials Science	5	Universal testing machine, Impact testing machine, Rockwell and	6 Hours/week	K.V.V Durga ra	Lab Technician	DME
7	Manufacturing Processes	5	Wood turning lathe, Permeability tester, Arc welding machine, Spot	6 Hours/week	K. Anil Kumar	Lab Technician	B.Tech

8	Fluid Mechanics and Hydraulic Machines	5	Bernoulli's theorem apparatus , Mouth piece & Orifice, Single stage centrifugal pump, Multi stage	6 Hours/week	G.K.Sai Harsh	Lab Technician	B.Tech
9	Thermal Engineering	5	Variable compression ratio test apparatus, 2-Stroke single cylinder petrol engine test rig, 4 Stroke single	6 Hours/week	Y.Narasimha F	Lab Technician	DME
10	Heat Transfer	5	Heat pipe demonstration, Pin-Fin demonstration, Composite wall demonstration, Forced Convection	6 Hours/week	P.Rama Krishr	Lab Technician	DME
11	Theory of Machines	5	whirling speed of shaft, Governors, Gyroscope, Cam &Follower systems, Types of Gears	6 Hours/week	P.Rama Krishr	Lab Technician	DME
12	Simulation of Mechanical Systems	1	Desktop Computers, Application Software (AutoCAD, Solid works, Ferran)	6 Hours/week	A.Bala balaji	Lab Technician	B.Sc,PGDCA
13	Computer Numerical Control Programming	1	Desktop Computers, CNC Milling Machine, Cut viewer mill and turn.	6 Hours/week	A.Bala balaji	Lab Technician	B.Sc,PGDCA
14	Metal Cutting & Machine Tools	5	Lathe Machine, Milling Machine, Slotting Machine, Shaper, Cylindrical Grinding Machine, Surface Grinding	6 Hours/week	K. Anil Kumar	Lab Technician	B.Tech
15	Mechanical Measurements &Metrology	5	Sine bar, Gear tooth Vernier caliper, Dial bore indicator, Gear teeth Vernier caliper, Tally surface testing	6 Hours/week	K.V.V Durga ra	Lab Technician	DME

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Engineering Workshop	1. Students are instructed to wear the safety hand gloves and leather shoes. 2. Students are instructed to use soft hammers for positioning. 3. Students are instructed to drive a wood chisel with a mallet. 4. Students are instructed to hold round stock securely with a "V- block". 5. Students are instructed to use pliers to grip surfaces and objects of irregular shapes. 6. First Aid Kit is kept in the laboratory. 7. Fire extinguisher is kept near the laboratory. 8.Earthing is provided for all Machines working on Electrical Power
2	Mechanics of solids & Materials science	1. Students are instructed to handle the microscopic lens with care. 2. Students are instructed to be very careful while using chemicals. 3. Students are instructed to wash their hands after performing experiment. 4. Students are instructed plait hair and avoid baggy clothing in the laboratory. 5. Students are instructed to wear apron. 6. First Aid Kit is kept in the laboratory. 7. Fire extinguisher is kept near the laboratory. 8. Earthing is provided for all Machines working on Electrical Power
3	Manufacturing Processes	1. Students are instructed to wear safety goggles when necessary. 2. Students are instructed to wear welding helmets while welding. 3. Students are instructed to wear the safety hand gloves and leather shoes. 4. First Aid Kit is kept in the laboratory. 5. Fire extinguisher is kept near the laboratory. 6. Earthing is provided for all Machines working on Electrical Power
4	Thermal Engineering	1. Students are instructed to Wash hands before leaving the lab. 2. First Aid Kit is kept in the laboratory. 3. Fire extinguisher is kept near the laboratory. 4. Students are instructed to stay away from the engines while operating. 5. Earthing is provided for all Machines working on Electrical Power
5	Heat Transfer	1. Students are instructed to check the equipment before starting the experiment. 2. Students are instructed to wear the leather shoes. 3. First Aid Kit is kept in the laboratory. 4. Fire extinguisher is kept near the laboratory. 5. Earthing is provided for all Machines working on Electrical Power.
6	Fluid Mechanics & Hydraulic Machines	1. Students are instructed to wear the leather shoes. 2. Students are instructed to keep work area tidy. 3. Students are barred from opening the drain valves of manometer while machine is running. 4. First Aid Kit is kept in the laboratory. 5. Fire extinguisher is kept near the laboratory. 6. Earthing is provided for all Machines working on Electrical Power

7	Metal Cutting & Machine Tools	1. Students are instructed to clamp the work piece securely and tightly. 2. Students are instructed to remove the chuck key immediately after use. 3. Students are instructed to keep hands on the controls. 4. Students are instructed to keep hands away from chips. 5. Students are instructed not to use the speed selector controls while the spindle is rotating. 6. Students are instructed to use properly grounded tools. 7. First Aid Kit is kept in the laboratory. 8. Fire extinguisher is kept near the laboratory. 9. Earthing is provided for all Machines working on Electrical Power.
8	Mechanical Measurements &Metrology	1. Students are instructed to check for Zero error of the instrument. 2. Students are instructed to use the micrometer for the designed purpose. 3. Students are instructed to use the gauges carefully. 4. Students are instructed to avoid Parallax error. 5. First Aid Kit is kept in the laboratory. 6. Fire extinguisher is kept near the laboratory.
9	Simulation of Mechanical Systems	1. Students are instructed to handle all the computer peripherals with care. 2. Students are instructed to avoid stepping on electrical wires or any other cables. 3. First Aid Kit is kept in the laboratory. 4. Fire extinguisher is kept near the laboratory. 5. Earthing is provided for all Systems on Electrical Power.
10	Theory of Machines	1. Students are instructed to wear the safety hand gloves and leather shoes. 2. Students are instructed plait hair and avoid baggy clothing in the laboratory. 3.Students are instructed to wear apron. 4. First Aid Kit is kept in the laboratory. 5. Fire extinguisher is kept near the laboratory. 6. Earthing is provided for all Machines working on Electrical Power
11	Engineering Mechanics	1. Students are instructed to wear the safety hand gloves and leather shoes. 2. Students are instructed plait hair and avoid baggy clothing in the laboratory. 3.Students are instructed to wear apron. 4. First Aid Kit is kept in the laboratory. 5. Fire extinguisher is kept near the laboratory.
12	Computer Numerical Control Programming	1. Students are instructed to clamp the work piece securely and tightly. 2. Students are instructed to remove the chuck key immediately after use. 3. Students are instructed to keep hands on the controls. 4. Students are instructed not to use the speed selector controls while the spindle is rotating. 5. Students are instructed to use properly grounded tools. 6. First Aid Kit is kept in the laboratory. 7. Fire extinguisher is kept near the laboratory. 8. Earthing is provided for all Machines working on Electrical Power.

D3. Project Laboratory/Research Laboratory

The Department has established a Project Laboratory / Centers of Excellence to meet the research needs of both faculty and students (PG & UG and PhD). The CAD lab is well equipped with the latest soft-wares like SOLID WORKS, CATIA, AutoCAD, etc. Mention facilities & Utilization of Various facilities in laboratories are used by the students towards completion of their projects. The following laboratories are kept open beyond the working hours enabling the students to complete the projects on time.

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

S.N.	Name of the Laboratory	Name of the Important equipment	Utilization
1	CAD/CAM	1.Vertical Machining Centre,CNC turning centre. 2.Design softwares like AutoCAD, Solid Works, Femap, Cut viewer mill and turn.	Aid in Class room teaching, In-house projects, Research publications, innovations and products.
2	Solar Energy Laboratory	1.Conventional Solar Still 2.Single Slope Solar Still 3.Double Slope Solar Still 4.Rectangular Pyramid Slope Solar Still	In-house projects, Research publications, innovations.
3	Dassault System Laboratory	CATIA	In-house projects, Research publications, innovations.

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)	1080	54	54	20	87
2023-24(CAYm1)	1080	54	59	19	94
2024-25(CAY)	1200	60	62	22	90

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	50000000	48954988	40000000	38006213	20000000	8786089	10000000	4632891
Library	2600000	2567688	2000000	1941117	1500000	1318262	1000000	88061
Laboratory equipment	10000000	1747793	9000000	8693712	3500000	3164678	1500000	1308856
Teaching and non-teaching staff salary	200000000	185616844	180000000	176430091	160000000	146469077	180000000	177245756
Outreach Programs	100000	63000	100000	63100	50000	33811	25000	18741
R&D	500000	426090	500000	800418	500000	1766000	300000	400800
Training, Placement and Industry linkage	2500000	1780188	3000000	2957393	3000000	3076594	2000000	1211450
SDGs	1500000	1416413	0	0	0	0	0	0
Entrepreneurship	25000	17000	25000	17400	20000	15000	10000	10000
Others, specify	90000000	86159930	90000000	84688845	8500000	82366114	50000000	39769427
Total	**357225000**	**328749934**	**324625000**	**313598289**	**197070000**	**246995625**	**244835000**	**224685982**

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	315000	302554	600000	566585	3000000	2960344	300000	281630
Software	0	0	500000	496780	0	0	0	0
SDGs	25000	22000	0	0	0	0	0	0
Support for faculty development	10000	6395	40000	37000	40000	35820	0	0

R & D	50000	25000	450000	430000	300000	293000	325000	315000
Industrial Training, Industry expert,	12000	10800	90000	85500	70000	66900	0	0
Miscellaneous Expenses*	115000	108000	800000	785000	115000	113000	110000	110000
Total	**527000**	**474749**	**2480000**	**2400865**	**3525000**	**3469064**	**735000**	**706630**