NATIONAL BOARD OF ACCREDITATION

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

Program Name : Mechanical Engineering	**Discipline**: Engineering & Technology
Level : Under Graduate	**Tier**: 1
Application No: 11321	**Date of Submission**: 23-12-2025

PART A- Profile of the Institute

A1.Name of the Institute: SAGI RAMAKRISHNAM RAJU ENGINEERING COLLEGE,BHIMAVARAM,ANDHRA PRADESH	
Year of Establishment : 1980,1992	Location of the Institute: SRKR Marg China Amiram
A2. Institute Address:BHIMAVARAM,ANDHRA PRADESH	
City:--Select--	State:Andhra Pradesh
Pin Code:534204	Website:www.srkrec.ac.in
Email:PRINCIPAL@SRKREC.AC.IN	Phone No(with STD Code):08816-223332
A3. Name and Address of the Affiliating University (if any):	
Name of the University : Jawaharlal Nehru Technological University, Kakinad	City: east Godavari
State : Andhra Pradesh	Pin Code: 533003
A4. Type of the Institution: Autonomous CAY(2016-17)	
A5. Ownership Status: Self financing	

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

- No. of UG programs: **12**
- No. of PG programs: **6**

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 Data Science	2020	--	Information Technology
2	Engineering & Technology	UG	Artificial Intelligence and Machine Learning	2021	--	Computer Science and Engineering
3	Engineering & Technology	PG	CAD/CAM	2003	--	Mechanical Engineering
4	Engineering & Technology	UG	Civil Engineering	1980	--	Civil Engineering
5	Engineering & Technology	PG	Communication Systems	2006	--	Electronics and Communication Engineering
6	Engineering & Technology	UG	Computer Science & Information Technology	2023	--	Information Technology
7	Engineering & Technology	PG	Computer Science & Technology	2006	--	Computer Science and Engineering
8	Engineering & Technology	UG	Computer Science and Business System	2020	--	Information Technology

9	Engineering & Technology	UG	Computer Science and Design	2021	--	Computer Science and Engineering
10	Engineering & Technology	UG	Computer Science and Engineering	1991	--	Computer Science and Engineering
11	Engineering & Technology	UG	Computer Science and Engineering (Internet of Things and Cyber Security including Blockchain Technology)	2022	--	Computer Science and Engineering
12	Engineering & Technology	UG	Electrical & Electronics Engineering	1994	--	Electrical and Electronics Engineering
13	Engineering & Technology	UG	Electronics & Communication Engineering	1980	--	Electronics and Communication Engineering
14	Engineering & Technology	UG	Information Technology	1999	--	Information Technology
15	Engineering & Technology	PG	Information Technology	2006	--	Information Technology
16	Engineering & Technology	UG	Mechanical Engineering	1980	--	Mechanical Engineering
17	Engineering & Technology	PG	Power Systems & Automation Engineering	2010	--	Electrical and Electronics Engineering
18	Engineering & Technology	PG	Structural Engineering	2009	--	Civil 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
Electrical and Electronics Engineering	No	Electrical & Electronics Engineering	UG
Mechanical Engineering	No	Mechanical Engineering	UG
Civil Engineering	No	Civil Engineering	UG
Electronics and Communication Engineering	No	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 ARROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITE
1	Mechanical Engineering	UG	1980 / --	240	Yes	2024	120	2024	South-Central/1-43655977681/2024/EOA	Granted accreditation for 3 years for the period (specify period)	2023	2026	5

Sanctioned Intake for Last Five Years for the Mechanical Engineering	
Academic Year	**Sanctioned Intake**
2025-26	120
2024-25	120
2023-24	180
2022-23	180
2021-22	240
2020-21	240

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. Sita Rama Raju Kalidindi
B. Nature of appointment:	Regular
C. Qualification:	M.E. and Ph.D.

B3. Program Details

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

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2025-26 (CAY)	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)	2021-22 (CAYm4)	2020-21 (CAYm5)	2019-20 (CAYm6)
N=Sanctioned intake of the program (as per AICTE /Competent authority)	120	120	180	180	240	240	300
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	114	159	135	177	222	269
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	14	33	43	60	56	45
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	11	17	18	23	0	0

Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	132	139	209	196	260	278	314

CAY= Current Academic Year. CAYm1= Current Academic Year Minus 1 CAYm2= Current Academic Year Minus 2. LYG= Last Year Graduate. LYGm1= Last Year Graduate Minus 1. LYGm2= Last Year Graduate Minus 2.

B4. Enrolment Ratio in the First Year

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

Year of entry	N (From Table 4.1)	N1 (From Table 4.1)	N4 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2025-26 (CAY)	120	120	12	110.00
2024-25 (CAYm1)	120	114	11	104.17
2023-24 (CAYm2)	180	159	17	97.78

Average [(ER1 + ER2 + ER3) / 3] = 103.98≡ 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	(2021-22) LYG	(2020-21) LYGm1	(2019-20) LYGm2
A*= (No. of students admitted in the 1st year of that batch and those actually admitted in the 2nd year via lateral entry, plus the number of students admitted through multiple entry (if any) and separate division if applicable, minus the number of students who exited through multiple entry (if any).	300.00	296.00	345.00
B=No. of students who graduated from the program in the stipulated course duration	167.00	207.00	255.00
Success Rate (SR)= (B/A) * 100	55.67	69.93	73.91

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 66.50

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

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

Academic Performance	CAYm1(2024-25)	CAYm2(2023-24)	CAYm3 (2022-23)
Mean of CGPA or mean percentage of all successful students(X)	7.82	7.60	7.61
Y=Total no. of successful students	114.00	159.00	135.00
Z=Total no. of students appeared in the examination	114.00	159.00	135.00
API [X*(Y/Z)]	7.82	7.60	7.61

Average API[(AP1+AP2+AP3)/3] : 7.68

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

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

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 2nd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2rd year/10)	7.47	7.74	8.66
Y=Total no. of successful students	208.00	196.00	248.00
Z=Total no. of students appeared in the examination	214.00	200.00	253.00
API [X * (Y/Z)]	7.26	7.59	8.49

Average API [(AP1 + AP2 + AP3)/3] : 7.78

B8. Academic Performance of the Third Year Students of the Program

Table No.B8.1: Academic Performance of the Third Year Students of the Program

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 3rd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 3rd year/10)	8.15	7.87	7.99
Y=Total no. of successful students	187.00	243.00	268.00
Z=Total no. of students appeared in the examination	196.00	248.00	274.00
API [X*(Y/Z)]:	7.78	7.71	7.82

Average API [(AP1 + AP2 + AP3)/3] : 7.77

B9. Placement, Higher Studies, and Entrepreneurship

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

Item	LYG (2021-22)	LYGm1(2020-21)	LYGm2(2019-20)
FS*=Total no. of final year students	300.00	296.00	345.00
X=No. of students placed	150.00	130.00	175.00
Y=No. of students admitted to higher studies	3.00	2.00	1.00
Z= No. of students taking up entrepreneurship	0.00	0.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	51.00	44.59	51.01

Average Placement Index = (P_1 + P_2 + P_3)/3: 48.87 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. Siriyala Rajesh	XXXXXXX80P	M.Tech and Ph.D.	JNTUK	Manufacturing Engineering	17/07/2006	19.4	Assistant Professor	Professor	02/05/2022	Regular	Yes		No
2	Dr. Sita Rama Raju Kalidindi	XXXXXXX90M	M.E. and Ph.D.	JNTUK	Manufacturing Engineering	06/08/2008	17.4	Assistant Professor	Professor	02/05/2022	Regular	Yes		Yes
3	Dr. Karanam Suresh Babu	XXXXXXX46N	M.E. and Ph.D.	Andhra University	Manufacturing Engineering	14/9/1990	35.2	Lecturer	Professor	01/10/2012	Regular	Yes		No
4	Dr. Vanapalli Durga Prasada Rao	XXXXXXX01F	M.E. and Ph.D.	JNTUH	Mechanical Engineering	02/07/1991	34.5	Lecturer	Professor	01/10/2009	Regular	Yes		No
5	Dr. Kalidindi Brahma Raju	XXXXXXX90E	M.E. and Ph.D.	JNTUA	Mechanical Engineering	01/11/1990	35.1	Lecturer	Professor	01/10/2009	Regular	Yes		No

6	Dr. Penmetsa Rama Murty Raju	XXXXXXX53P	M.Sc. (Engineering) and PhD	Andhra University	Mechanical Engineering	26/06/1992	33.5	Lecturer	Professor	01/10/2009	Regular	Yes		No
7	Dr. Kantheti Venkata Murali Krishnam Raju	XXXXXXX48C	M.Tech and Ph.D.	JNTUK	Manufacturing Engineering	22/06/1992	33.5	Assistant Professor	Professor	01/05/2013	Regular	Yes		No
8	Dr. Vegesna Kasi Viswanadha Raju	XXXXXXX12D	M.Sc. (Engineering) and PhD	Andhra University	Mechanical Engineering	01/11/1990	35.1	Lecturer	Professor	03/01/2022	Regular	Yes		No
9	Dr. Adavi Bala Krishna	XXXXXXX90F	M.Tech and Ph.D.	Andhra University	Mechanical Engineering	01/09/1990	34.9	Lecturer	Professor	01/10/2009	Regular	No	31/05/2025	No
10	Chintalapati Gopala Raju	XXXXXXX36A	M.E.	Andhra University	Industrial Engineering	10/11/1998	27.1	Lecturer	Associate Professor		Regular	Yes		No
11	Gadiraju Chatapathi Raju	XXXXXXX23E	M.Tech	VT University Karnataka	Production Engineering	07/12/1998	27	Lecturer	Associate Professor	01/01/2009	Regular	Yes		No
12	Dr. Chekuri Rama Bhadri Raju	XXXXXXX73D	M.E. and Ph.D.	KL University	Mechanical Engineering	09/01/2009	16.11	Assistant Professor	Associate Professor	03/01/2022	Regular	Yes		No
13	Dr. Indukuri Rama Pavan Kumar Varma	XXXXXXX98N	M.E. and Ph.D.	Andhra University	Mechanical Engineering	14/09/2009	16.2	Assistant Professor	Assistant Professor		Regular	Yes		No
14	Namburi Harsha	XXXXXXX70F	M.E.	Andhra University	CAD/CAM	01/07/2011	14.5	Assistant Professor	Assistant Professor		Regular	Yes		No
15	Venkata M K Raju V	XXXXXXX50H	M.E.	Andhra University	CAD/CAM	01/07/2011	14.5	Assistant Professor	Assistant Professor		Regular	Yes		No
16	Namburi Sudheer Kumar Varma	XXXXXXX75G	M.E.	Andhra University	CAD/CAM	13/07/2012	13.4	Assistant Professor	Assistant Professor		Regular	Yes		No
17	Dr. Singuru Madhava Rao	XXXXXXX85K	M.Tech and Ph.D.	Andhra University	Mechanical Engineering	01/09/2012	13.3	Assistant Professor	Assistant Professor		Regular	Yes		No
18	Dr. Gajula S.V. Seshu Kumar	XXXXXXX67K	M.E. and Ph.D.	KL University	Mechanical Engineering	10/07/2013	12.5	Assistant Professor	Assistant Professor		Regular	Yes		No
19	Dr. Mudunuri Anil Kumar	XXXXXXX69N	M.Tech and Ph.D.	Annamalai University	Manufacturing Engineering	10/07/2013	12.5	Assistant Professor	Assistant Professor		Regular	Yes		No
20	Dr. Namburi Satish	XXXXXXX27J	M.Tech and Ph.D.	Annamalai University	Mechanical Engineering	10/07/2013	12.5	Assistant Professor	Assistant Professor		Regular	Yes		No
21	Dr. Medam Indra Reddy	XXXXXXX38H	M.Tech and Ph.D.	SRM University	Mechanical Engineering	07/10/2013	12.2	Assistant Professor	Assistant Professor		Regular	Yes		No
22	Dr. Ravi Varma Penmetsa	XXXXXXX32D	M.Tech and Ph.D.	Annamalai University	Manufacturing Engineering	17/10/2013	12.1	Assistant Professor	Assistant Professor		Regular	Yes		No
23	Gottumukkala Hema Tammi Raju	XXXXXXX71N	M.E.	Andhra University	CAD/CAM	21/10/2014	11.1	Assistant Professor	Assistant Professor		Regular	Yes		No

24	Kotha M.N.V.S.A.Siva Ram	XXXXXXX96M	M.E.	Andhra University	CAD/CAM	21/10/2014	11.1	Assistant Professor	Assistant Professor		Regular	Yes		No
25	Dr. Kantheti Prasad Raju	XXXXXXX59Q	M.Tech and Ph.D.	Nirwan University	Mechanical Engineering	20/07/2015	10.4	Assistant Professor	Assistant Professor		Regular	Yes		No
26	Vatala Manikanth	XXXXXXX67C	M.Tech	JNTUH	Thermal Engineering	20/07/2015	10.4	Assistant Professor	Assistant Professor		Regular	Yes		No
27	Uddaraju Rajendra Prasad Varma	XXXXXXX28J	M.E.	Andhra University	CAD/CAM	20/07/2015	10.4	Assistant Professor	Assistant Professor		Regular	Yes		No
28	Chinamilli N.V.S. Swamy	XXXXXXX64R	M.E.	OU	Tool Design	20/07/2015	10.4	Assistant Professor	Assistant Professor		Regular	Yes		No
29	Vundrajavarapu Praveen	XXXXXXX28Q	M.Tech	OU	Advanced Design and Manufacturing	07/07/2016	9.5	Assistant Professor	Assistant Professor		Regular	Yes		No
30	Shaik M.Z.M.Saqheeb Ali	XXXXXXX14K	M.Tech	JNTUK	Thermal Engineering	17/10/2016	9.1	Assistant Professor	Assistant Professor		Regular	Yes		No
31	Shaik R.S.Mahaboob Ali	XXXXXXX62F	M.Tech	JNTUK	Thermal Engineering	17/10/2016	9.1	Assistant Professor	Assistant Professor		Regular	Yes		No
32	Dr. Kothapalli Sunil Kumar	XXXXXXX54P	M.E. and Ph.D.	Nirwan University	Mechanical Engineering	02/11/2016	9.1	Assistant Professor	Assistant Professor		Regular	Yes		No
33	Dr. Kotteda Tarun Kumar	XXXXXXX26Q	M.Tech and Ph.D.	Dr. B R Ambedkar NIT Jalandhar	Mechanical Engineering	02/01/2021	4.11	Assistant Professor	Assistant Professor		Regular	Yes		No
34	Vegesna Krishna Chaitanya Varma	XXXXXXX26B	M.Tech	Andhra University	CAD/CAM	01/11/2019	6.1	Assistant Professor	Assistant Professor		Regular	Yes		No
35	Dr. Kuchampudi Sandeep Varma	XXXXXXX40A	M.Tech and Ph.D.	Nirwan University	Mechanical Engineering	01/11/2019	6.1	Assistant Professor	Assistant Professor		Regular	Yes		No
36	Mudunuri Rajesh	XXXXXXX85J	M.Tech	Andhra University	CAD/CAM	01/11/2019	6.1	Assistant Professor	Assistant Professor		Regular	Yes		No
37	Boddu Soundarya Santhoshi	XXXXXXX08K	M.Tech	Andhra University	CAD/CAM	05/11/2019	6.1	Assistant Professor	Assistant Professor		Regular	Yes		No
38	Dr. Debnath Shantanu	XXXXXXX05G	M.Tech and Ph.D.	NIT Agartala	Industrial Metallurgy	07/11/2019	6.1	Assistant Professor	Assistant Professor		Regular	Yes		No
39	Durga Hemanth Kumar Kondreddi	XXXXXXX10D	M.Tech	JNTUK	CAD/CAM	07/11/2019	6.1	Assistant Professor	Assistant Professor		Regular	Yes		No
40	P.V.Ch.R.K. Santosh	XXXXXXX77R	M.Tech	JNTUK	Thermal Engineering	07/11/2019	6.1	Assistant Professor	Assistant Professor		Regular	Yes		No

41	Durga Prasad Balam	XXXXXXX10E	M.Tech	Andhra University	CAD/CAM	22/11/2019	6	Assistant Professor	Assistant Professor		Regular	Yes		No
42	Dr. Vitalram Rayankula	XXXXXXX77C	M.Tech and Ph.D.	IIT Roorkee	Robotics	21/01/2020	4.3	Assistant Professor	Assistant Professor		Regular	No	11/05/2024	No
43	Sai Srikanth Varma Rudraraju	XXXXXXX35F	M.Tech	JNTUK	CAD/CAM	21/01/2020	5.10	Assistant Professor	Assistant Professor		Regular	Yes		No
44	Dr. A V S S Soma Sundar	XXXXXXX18G	M.Tech and Ph.D.	KL University	Mechanical Engineering	10/10/2022	3.1	Assistant Professor	Assistant Professor		Regular	Yes		No
45	Dr. Koribilli Rama Satyanarayana	XXXXXXX91D	M.Tech and Ph.D.	GITAM University	Mechanical Engineering	01/09/2021	4.3	Associate Professor	Professor	09/05/2025	Regular	Yes		No
46	Chitturi Srinivas	XXXXXXX95G	M.E.	Bharatiyar University	Engineering Design	01/09/1990	35.3	Lecturer	Associate Professor		Regular	Yes		No
47	Penmetsa Venkata Ramana Subrahmanya Padma Raju	XXXXXXX67H	M.Tech	VT University Karnataka	Production Engineering	01/12/1998	27	Lecturer	Associate Professor	01/01/2009	Regular	Yes		No

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

C2. Student-Faculty Ratio (SFR)

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

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

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

Description	**CAY(2025-26)**	**CAYm1 (2024-25)**	**CAYm2 (2023-24)**
UG1.B	132	198	198
UG1.C	198	198	264
UG1.D	198	264	264
UG1: Mechanical Engineering	**528**	**660**	**726**
PG1.A	6	6	6

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
PG1.B	6	6	6
PG1: CAD/CAM	**12**	**12**	**12**
DS=Total no. of students in all UG and PG programs in the Department	540	672	738
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=** 540	**S2=** 672	**S3=** 738
DF=Total no. of faculty members in the Department	45	46	47
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=** 45	**F2=** 46	**F3=** 47
FF=The faculty members in F who have a 100% teaching load in the first-year courses	10	10	10
Student Faculty Ratio (SFR)=S/(F-FF)	**SFR1= 15.43**	**SFR2= 18.67**	**SFR3= 19.95**
Average SFR for 3 years	**SFR= 18.02**		

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)]
2025-26(CAY)	22	23	27.00	28.89
2024-25(CAYm1)	14	32	33.00	20.30
2023-24(CAYm2)	13	34	36.00	18.47

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
2025-26	3.00	9.00	6.00	1.00	18.00	35.00
2024-25	3.00	9.00	7.00	2.00	22.00	35.00
2023-24	4.00	9.00	8.00	2.00	24.00	36.00

Average	RF1=3.33	AF1=9.00	RF2=7.00	AF2=1.67	RF2=21.33	AF2=35.33

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)

(CAYm2)

(CAYm3)

C6. Academic Research

Table No. C6.1: Faculty publication details.

S.No.	Item	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)
1	No. of peer reviewed journal papers published	55	28	11
2	No. of peer reviewed conference papers published	4	8	1
3	No. of books/book chapters published	1	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
Dr. G. Harish Kumar Varma	Dr. Ch. Rama Bhadri Raju	SRKREC	Science Technology and Innovation Driven Inland Aquaculture Hub for Bhimavaram Suburbs	DST	2024-27	96.01
						Amount received (Rs.):96.01

(CAYm2)

(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. K Brahma Raju	Sri K Tarun Kumar	Mechanical Engineerinng	Underwater drone for welding	MSME innovative Scheme	2022-24	3.50
						Amount received (Rs.):3.50

Total Amount (Lacs) Received for the Past 3 Years: 99.51

Note*:

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

C8. Consultancy Work

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

(CAYm1)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
						Amount received (Rs.):0

(CAYm2)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
						Amount received (Rs.):0

(CAYm3)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
						Amount received (Rs.):0

Total amount (Lacs) received for the past 3 years: 0

Note*:

- Only consultancy projects will be considered. Infrastructure-based projects will not be considered here.

C9. Institution Seed Money or Internal Research Grant to its Faculty for Research Work

Table No. C9.1: List of faculty members received seed money or internal research grant from the Institution.

(CAYm1)

(CAYm2)

(CAYm3)

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

PART D: Laboratory Infrastructure in the Department

(Data to be filled in for the Department)

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

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

Sr. No	Name of the Laboratory	Number of students per set up(Batch Size)	Name of the Important Equipment	Weekly utilization status(all the courses for which the lab is utilized)	Technical Manpower Support		
					Name of the Technical staff	Designation	Qualification

1	Engineering Workshop	1	1. Universal wood turning machine, Carpentry turning lathe – 2Nos, 7" heavy vices – 13no's, 9"	48	G. Srinivasa Raju, A.Su	Jr. Foremen, Jr. Technic	ITI, ITI, ITI
2	Manufacturing Process Lab	4	1. Foundry Equipment, 2. Foundry Tools, 3. Hydraulic Power Hacksaw. 4.Sieve shaker, 5. Rapid	24	Bh. Ravi Kumar, A. Rar	Jr. Formen, Jr. Technicia	ITI, ITI.
3	Strength of materials Lab	4	1.Universal materials testing system, 2. Rockwell hardness tester, 3. Brinell's and Vickers hardness	24	K. Srinivasa Raju M. Pu	Jr. Technician, Jr. Techn	Polytechnic, ITI
4	Internal Combustion Engines and Kinematics of machines Lab	4	1. Redwood Viscometers –I & II, 2. Saybolt's Apparatus, 3. Pensky Martins flash point Apparatus,	24	K. Suresh, P.G.V.N Rajk	Jr. Formen, Technician.	ITI, ITI.
5	Machine Tools Lab	4	1. Universal Milling machine, 2. Shaping machine, 3. Surface grinding machine, 4. Surface roughness	24	Bh. Ravi Kumar, A. Rar	Jr. Formen, Jr. Technicia	ITI, ITI.
6	Metrology Lab	4	1.Vernier calipers-11No's, 2. Slip gauge set-2No's, 3. C.I Surface plate, 4. Angle Plate-2No's, 5. Granite	24	G. S. Venkatapathi Raju	Jr. Formen, Jr. Technicia	ITI, ITI
7	Industrial Engineering Lab.	4	1. Bicycle Ergo meter, 2. Electric toasters, 3. B.P Apparatus, 4. Weight Machine, 5. Vernier Callipers	24	G. S. Venkatapathi Raju	Jr. Formen	ITI
8	Fluid Mechanics and Hydraulic Machines Lab	4	1. Pelton turbine test rig, 2. Pipe friction apparatus, 3. Bernaullies apparatus, 4. Notches (V,	24	K. Suresh, P.G.V.N Rajk	Jr. Formen, Technician.	ITI, ITI.
9	Heat Transfer Lab	4	1. Thermal Conductivity of metal Bar Apparatus, 2. Composite wall Apparatus 3. Pin Fin Apparatus, 4.	24	M .Satish, M. Purna Sai	Jr. Technician, Jr. Techn	ITI, ITI.
10	CAD/CAM Lab	1	1.Computer systems :75 No's, 2. UPS : 10KVA UPS, 3. CNC Turning, 4. CNC Vertical Milling, 5.	12	V. Rajesh Varma, P. S. S	Jr. Technician, Lab Assc	polytechnic, B. Tech.
11	Programming lab	1	1.Computer systems :37No's, 2. Laptops: 36No's 3. UPS : 6KVA UPS, 4. Projector :- 1 No.	12	V. Rajesh Varma, P. S. S	Jr. Technician, Lab Assc	polytechnic, 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	Work Shop Practice	1. Fire extinguishers are provided. 2. Meshing partition is provided on the work tables of Fitting section. 3. Minimum distance is maintained between two students working on the same bench and also between work benches. 4. A good number of technicians are always present to guide the students during the lab work and also to take care of any emergency.
2	Strength of Materials Lab	1. Earthing is provided for all Machines working on Electrical Power. 2. Fire extinguisher is provided. 3. Minimum distance is maintained between Experimental setup. 4. First aid box is provided in the Laboratory. 5. Without shoes and apron no student is allowed to enter the lab as these are basic need. 6.Boards consisting of Do's and Don'ts are displayed in all the laboratories.
3	Manufacturing Process Lab & Machine Tools Lab	1. Earthing is provided for all Machines working on Electrical Power. 2. Fire extinguisher is provided. 3. Minimum distance is maintained between Experimental setup. 4. Goggles and Gloves are provided. 5. Wooden planks are provided as Pedestals for students 6. Working on Machine's. 7. Technicians are always available to guide the students and meet any emergency. 8. First aid box is provided in all the laboratories. 9. Boards consisting of Do's and Don'ts are displayed in all the laboratories. 10.Without shoes and apron no student is allowed to enter the lab as these are basic need.

4	Fluid Mechanics and Hydraulic Machines Lab	1. Earthing is provided for all Machines working on Electrical Power. 2. Spillage of Mercury from the Manometer is prevented. 3. First aid box is provided in the laboratories. 4. Without shoes and apron no student is allowed to enter the lab as these are basic need. 5. Boards consisting of Do's and Don'ts are displayed in all the laboratories.
5	Metrology lab	1. Equipment handling has to be gentle. 2. Earthing is provided for all Machines working on Electrical Power. 3. First aid box is provided in the laboratories. 4. Without shoes and apron no student is allowed to enter the lab as these are basic need. 5. Boards consisting of Do's and Don'ts are displayed in all the laboratories.
6	Industrial Engineering Lab	1. Equipment handling has to be gentle. 2. First aid box is provided in the laboratories. 3. Without shoes and apron no student is allowed to enter the lab as these are basic need. 4. Boards consisting of Do's and Don'ts are displayed in the laboratories.
7	Heat Transfer lab	1. Earthing is provided for all Machines working on Electrical Power. 2. Minimum distance is maintained between Experimental setup. 3. First aid box is provided in all the laboratories. 4. Without shoes and apron no student is allowed to enter the lab as these are basic need. 5. Boards consisting of Do's and Don'ts are displayed in the Heat Transfer lab.
8	CAD/CAM Lab	1. Earthing is provided for all Systems on Electrical Power. 2. Fire extinguisher is provided. 3. First aid box is provided in the laboratory. 4. Boards consisting of Do's and Don'ts are displayed in the laboratory.
9	Programing Lab	Earthing is provided for all Systems on Electrical Power. 2. Fire extinguisher is provided. 3. First aid box is provided in the laboratory. 4. Boards consisting of Do's and Don'ts are displayed in the laboratory.

D3. Project Laboratory/Research Laboratory

Name of the Laboratory/Center of Excellence	Description of Equipment Available
Center for Metal Matrix Composites	1. Controlled Environment Stir Casting 2. Rotary Bending Fatigue Test Rig
Center for Testing Biodiesels	1. Computerised VCR single cylinder diesel test rig.
Center for Nano Technology	1.UV-Visible spectroscopy 2. Fluorescence 3. Double distillation 4. Rotary evaporator 5. Ultra centrifuge 6. Sonicator 7. Microfluidics module

PART E: First Year faculty and financial Resources

(Data to be filled in for the first year course faculty and budget allocation and utilization)

E1. First Year Student-Faculty Ratio (FYSFR)

Table No. E1.1: FYSFR details.

Year	Sanctioned intake of all UG programs (S4)	No. of required faculty (RF4= S4/20)	No. of faculty members in Basic Science Courses & Humanities and Social Sciences including Management courses (NS1)	No. of faculty members in Engineering Science Courses (NS2)	Percentage= No. of faculty members ((NS1*0.8) + (NS2*0.2))/(No. of required faculty (RF4)); Percentage=((NS1*0.8) + (NS2*0.2))/RF
2023-24(CAYm2)	1860	93	87	20	79
2024-25(CAYm1)	1860	93	87	20	79
2025-26(CAY)	1860	93	84	20	77

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	140000000	77598230	150000000	146202039	90000000	79014295	75000000	67938104
Library	4000000	154305	4000000	3211149	4000000	3084585	4000000	2497758
Laboratory equipment	20000000	5902057	19200000	14479485	50000000	32309745	30000000	28359698
Teaching and non-teaching staff salary	520000000	265346910	510000000	502955822	500000000	472269762	465000000	464400355
Outreach Programs	2000000	1490762	2000000	1553420	500000	280080	100000	61507
R&D	2500000	1512200	2500000	2205217	1500000	1398318	1200000	1060302
Training, Placement and Industry linkage	33000000	14139740	32000000	30398673	37600000	34800667	39000000	37709910
SDGs	2000000	512085	3000000	2659146	2000000	1287536	1200000	1033608
Entrepreneurship	400000	195000	400000	335000	400000	392196	400000	287417
Repairs & Maintenance, University Fees ,Reg, taxes	200000000	77775096	200000000	174226563	158500000	137931882	149000000	143356145
Total	**923900000**	**444626385**	**923100000**	**878226514**	**844500000**	**762769066**	**764900000**	**746704804**

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

Table No. E3.1: Budget and actual expenditure incurred at program level.

Items	Budgeted in 2024-2025	Actual Expenses in 2024-2025 till	Budgeted in 2023-2024	Actual Expenses in 2023-2024 till	Budgeted in 2022-2023	Actual Expenses in 2022-2023 till	Budgeted in 2021-2022	Actual Expenses in 2021-2022 till
Laboratory equipment	500000	105068	1000000	947111	1104500	1091730	2500000	1820026
Software	1200000	719800	0	0	1100000	1091500	0	0
SDGs	200000	23600	350000	301025	150000	100800	10000	8682
Support for faculty development	100000	65694	0	0	0	0	30000	30384
R & D	250000	192950	100000	50000	0	0	100000	100000
Industrial Training, Industry expert, Internship	300000	42000	300000	256301	300000	279105	210000	208574
Maintenance & Spares, Mech Dept expansion	1400000	533725	2500000	2290599	1132850	1085893	3765000	3670827
Total	**3950000**	**1682837**	**4250000**	**3845036**	**3787350**	**3649028**	**6615000**	**5838493**