NATIONAL BOARD OF ACCREDITATION

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

PART-A: Profile of the Institute

Name of the Program Applied for: BE - Mechanical Engineering

A1: Name of the Institute: Sri Sai Ram Engineering College

Year of Establishment: 1995 Location of the Institute: Sai Leo Nagar, Poonthandalam Village, West Tambaram, Chennai – 600044, Tamil Nadu

A2: Institute Address:

City	:	Chennai	State	:	Tamil Nadu
Pin Code	:	600044	Website	:	https://sairam.edu.in/
E-mail	:	sairam@sairam.edu.in	Phone No (with STD Code)	:	044 2251 2222

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

Name of the University	:	Anna University	City	:	Chennai
State	:	Tamil Nadu	Pin Code	:	600025

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: 14 & 1 M.TECH. (CSE) – 5 Years Integrated
- No. of PG programs: 9

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	Year of close*	Name of the Department
1	UG	B.E. - Mechanical Engineering	1995	-	Mechanical Engineering
2	UG	B.E. - Electronics and Communication Engineering	1995	-	Electronics and Communication Engineering
3	UG	B.E.- Electrical and Electronics Engineering	1995	-	Electrical and Electronics Engineering
4	UG	B.E. -Computer Science and Engineering	1998	-	Computer Science and Engineering
5	UG	B.Tech. - Information Technology	1999	-	Information Technology
6	UG	B.E. - Electronics and Instrumentation Engineering	2007	-	Electronics and Instrumentation Engineering
7	UG	B.E. - Civil Engineering	2007	-	Civil Engineering
8	UG	B.Tech. - Computer Science and Business System	2020	-	Computer Science and Business System
9	UG	B.Tech. - Artificial Intelligence and Data Science	2020	-	Artificial Intelligence and Data Science
10	UG	B.E. - Computer Science and Engineering (Artificial Intelligence and Machine Learning)	2022	-	Computer Science and Engineering (Artificial Intelligence and Machine Learning)
11	UG	B.E.- Computer Science and Engineering (Internet of Things)	2022	-	Computer Science and Engineering (Internet of Things)
12	UG	B.E. - Computer Science and Engineering (Cyber Security)	2024	-	Computer Science and Engineering (Cyber Security)
13	UG	B.E. - Mechatronics Engineering	2025	-	Mechatronics Engineering
14	UG	B.E. - Computer and Communication Engineering	2025	-	Computer and Communication Engineering
15	Integrated	M.Tech. - Computer Science and Engineering (5 years Integrated)	2021	-	Computer Science and Engineering (5 years Integrated)
16	UG	B.E. - Instrumentation & Control Engg. (Name Change in the 2024 -25) as Electronic Instrumentation and Control Engineering	1998	2025	Electronic Instrumentation and Control Engineering
17	UG	B.E. - Mechanical and Automation Engineering	2021	2025	Mechanical Automation and Engineering
18	PG	M.E. – CAD/CAM	2009	-	Mechanical Engineering
19	PG	M.E.-Embedded Systems Technologies	2010	-	Electronics and Communication Engineering
20	PG	M.E. – Communication Systems	2009	-	Electronics and Communication Engineering
21	PG	M.E. – Computer Science and Engineering	2011	-	Computer Science and Engineering
22	PG	M.E. – Computer Science and Engineering (Networks)	2007	-	Information Technology

23	PG	M.Tech – Defence Technology	2022	-	Defence Technology
24	PG	M.E. – Big Data Analytics	2025	-	Computer Science and Engineering
25	PG	M.E. - Industrial Safety Engineering	2025	-	Mechanical Engineering
26	PG	M.E. - Power Electronics and Drives	2010	-	Electrical and Electronics Engineering

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

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

Cluster ID.	Name of the Department	Name of the Program
4	B.E. – Mechanical Engineering	B.E. – Mechanical Engineering
2	B.E. – Electronics and Instrumentation Engineering	B.E. – Electronics and Instrumentation Engineering
1	B.E. – Computer Science and Engineering	B.E. – Computer Science and Engineering
3	B.E. – Electrical and Electronics Engineering	B.E. – Electrical and Electronics Engineering
1	B.TECH. – Information Technology	B.TECH. – Information Technology

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)
4	B.E. – Mechanical Engineering	B.E. – Mechanical & Automation Engineering
2	B.E. – Electronics and Instrumentation Engineering	B.E. – Electronics and Communication Engineering B.E. – Instrumentation & Control Engineering (EICE) M.E.– Embedded Systems M.E. – Communication Systems
1	B.E. – Computer Science and Engineering	B.TECH. – Information Technology B.TECH. – Computer Science and Business System B.TECH. – Artificial Intelligence and Data Science M.E. – Computer Science and Engineering (Networks)
3	B.E. – Electrical and Electronics Engineering	-
1	B.TECH. – Information Technology	B.TECH. - Computer Science and Business System B.TECH. – Artificial Intelligence and Data Science B.E. – Computer Science and Engineering M.E. - Computer Science and Engineering

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.*

S. N.	Program Name	Year of start	Sanctioned Intake	Increase/ decrease in intake, if any	Year of increase/ decrease	AICTE Approval Details	Accreditation Status*	No. of times program accredited
1	Mechanical Engineering	1995	60	-	-	F.No.730-52-261/RC/94	Grantedaccreditationfor 3 years (March 2007-March 2010)	4
			90	30	2007	F.No.730-52-262(E)/ET/97/4.7.2007		
			120	30	2008	F.No.730-52-262(E)/ET/97/17.7.2008	Grantedaccreditationfor 5 years (July 2012-July 2017)	
			180	60	2012	F.No.Southern/1-707572573/2012/EOA/10.05.2012		
			240	60	2013	F.No.Southern/1-1346084942/2013/EOA/19.03.2013	Grantedaccreditationfor 3 years (1/07/2018 – 30/06/2021)	
			120	120	2021	F.No.Southern/1-9319122726/2021/EOA/10.07.2021	Based on Compliance Grantedaccreditation (Extension)for 1 year (1/07/ 2021 to 30/06/2022)	
							Based on Compliance Grantedaccreditationfor 3 years (1/07/2022-30/06/2025)	

* Write applicable one:

- Applying first time
- Granted accreditation for 2/3 years for the period (specify period)
- Granted accreditation for 5/6 years for the period (specify period)
- Not accredited (specify visit dates, year).
- Withdrawn (specify visit dates, year)
- Not eligible for accreditation.

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

A. Name of the HoD: Dr. B. Vijaya Ramnath

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)		CAY (2024-2025)	CAYm1 (2023-2024)	CAYm2 (2022-2023)	CAYm3 (2021-2022)	CAYm4 (LYG) (2020-2021)	CAYm5 (LYGm1) (2019-2020)	CAY m6 (LYGm2) (2018-2019)
N=	Sanctioned intake of the program (as per AICTE/Competent authority)	120	120	120	120	240	240	240
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	107	103	99	111	128	177	184
N2=	Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	11	18	11	56	18	37
N3=	Separate division if any	0	0	1	0	0	1	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.	107	114	118	122	184	196	221

CAY - Current Academic Year

CAYm1 - Current Academic Year minus1 = Current Assessment Year

CAYm2 - Current Academic Year minus2 = Current Assessment Year minus 1

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.*

Item (Students enrolled in the First Year on average over 3 academic years (CAY, CAYm1, and CAYm2))	**CAY (2024-2025)**	**CAYm1 (2023-2024)**	**CAYm2 (2022-2023)**
N= Sanctioned intake of the program in the 1st year (as per AICTE/Competent authority)	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	107	103	99
N4= Total no. of students admitted in the 1st year via all supernumerary quotas	0	0	0
Enrolment Ratio (ER)= (N1+N4)/N	89.16	85.83	82.5
Average ER= (ER_1+ ER_2+ ER_3)/3	257.49/3 = 85.83		

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	**LYG (CAYm4) (2020 – 2021)**	**LYGm1 (CAYm5) (2019 – 2020)**	**LYGm2 (CAYm6) (2018 – 2019)**
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).	184	196	221
B=No. of students who graduated from the program in the stipulated course duration	163	186	215
Success Rate (SR)= (B/A)*100	88.59	94.9	97.29
Average SR of three batches ((SR_1+SR_2+ SR_3)/3)	280.78/3 = 93.59		

Note *: If the value of A in Table No. B5.1 is less than the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2), then the value of A in Table No.B5.1 should be the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2) of Table No.B3.1.

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 – 2024)	CAYm2 (2022 – 2023)	CAYm3 (2021 – 2022)
X= (Mean of 1st year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 1st year/10)	7.81	7.66	7.73
Y= Total no. of successful students	90	60	59
Z = Total no. of students appeared in the examination	103	99	111
API = X* (Y/Z)	6.82	4.64	4.10
Average API = (API_1 + API_2 + API_3)/3	15.56 / 3 = 5.19		

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 – 2024)	CAYm2 (2022 – 2023)	CAYm3 (2021 – 2022)
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)	7.91	8.08	8.07
Y= Total no. of successful students	78	78	104
Z =Total no. of students appeared in the examination	116	118	184
API = X* (Y/Z)	5.32	5.34	4.56
Average API = (API_1 + API_2 + API_3)/3	15.22/3 = 5.07		

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 – 2024)	CAYm2 (2022 – 2023)	CAYm3 (2021 – 2022)
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)	7.87	7.78	8.57
Y= Total no. of successful students	95	132	159
Z= Total no. of students appeared in the examination	114	182	194
API = X* (Y/Z)	6.56	5.64	7.02
Average API = (API_1 + API_2 + API_3)/3	19.22/3 = 6.41		

B9: Placement, Higher Studies, and Entrepreneurship

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

Item	LYG (2020-2021)	LYGm1 (2019-2020)	LYGm2 (2018-2019)
FS*=Total no. of final year students	184	196	221
X= No. of students placed	158	125	160
Y= No. of students admitted to higher studies	10	9	3
Z= No. of students taking up entrepreneurship	0	1	1
X + Y + Z =	168	135	164
Placement Index (P) = (((X + Y + Z)/FS) * 100)	91.3	68.9	74.2
Average placement index = (P_1 + P_2 + P_3)/3	234.4/3 = 78.13		

Note *: If the value of FS in Table No. B9.1 is less than the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2), then the value of FS in Table No. B9.1 should be the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2) of Table No.B3.1.

PART C: Faculty Details in Department and Allied Departments

(Data to be filled in for the **Department and Allied Departments**)

Faculty details of Department and Allied Departments

Table No.C1: *Faculty details in the Department for the past 3 years including CAY*

CAY 2024-25

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/ Ad hoc)	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	Dr. A. Rajendra Prasad	Ph.D.	Anna University	Energy Engineering	04.09.1998	26.66 Years	Assistant Professor	Professor & Dean (Student Affairs)	01.08.2005	Regular	NA	Yes	-
2	Dr. B. Vijaya Ramnath	Ph.D.	Anna University	Production Engineering	31.01.2000	25.33 Years	Assistant Professor	Professor & Head	01.08.2011	Regular	NA	Yes	-
3	Dr. U. Tamilarasan	Ph.D.	Anna University	Composite Materials	01.10.1996	28.58 Years	Assistant Professor	Professor	10.06.2016	Regular	NA	Yes	-
4	Dr. K. Venkataraman	Ph.D.	Vel's University	Mechanical Engg.	15.06.2009	15.75 Years	Assistant Professor	Professor	01.06.2022	Regular	NA	Yes	-

5	Dr. L. Saravana Kumar	Ph.D.	JNT University	Thermal Plant Engineering	31.03.2006	19.16 Years	Assistant Professor	Professor	01.06.2022	Regular	NA	Yes	-
6	Mr .U. Balamurugan	M.E.	Vel Tech University	I.C.Engines	01.06.2022	3.0 Years	Associate Professor (Adjunct Faculty)	Associate Professor (Adjunct Faculty)	-	Regular	NA	Yes	-
7	Dr. S. Ramachandran	Ph.D.	I.I.T Madras	Industrial Robotics	09.01.2013	12.33 Years	Professor	Adjunct Professor	01.06.2021	Regular	NA	Yes	-
8	Dr. S. Vaidyanathan	Ph.D.	I.I.T Bombay	Thermal Engineering	14.06.2013	11.91 Years	Professor	Adjunct Professor	01.06.2021	Regular	NA	Yes	-
9	Dr. S. Arunprasad	Ph.D.	Anna University	Manufacturing Engineering	21.06.2006	18.91 Years	Assistant Professor	Associate Professor	01.08.2013	Regular	NA	Yes	-
10	Dr. R. Ashok Gandhi	Ph.D.	Annamalai University	Production Engineering	04.08.2008	16.75 Years	Assistant Professor	Associate Professor	01.08.2011	Regular	NA	Yes	-
11	Dr. N. Vasudevan	Ph.D	Anna University	Computer Integrated Manufacturing	03.08.2009	15.58 Years	Assistant Professor	Associate Professor	01.08.2014	Regular	NA	Yes	-
12	Dr. V. Ravi Raj	Ph.D.	Anna University	Product Design & Development	19.08.2009	15.58 Years	Assistant Professor	Associate Professor	01.08.2014	Regular	NA	Yes	-
13	Dr. S. Rajesh	Ph.D.	St.Peters University	CAD/CAM	01.06.2012	12.91 Years	Assistant Professor	Associate Professor	01.06.2019	Regular	NA	Yes	-

14	Dr. C. Parswajinan	Ph.D.	SCSVMV University	CAD	18.10.2012	12.58 Years	Assistant Professor	Associate Professor	01.06.2019	Regular	NA	Yes	-
15	Dr. M. Arul Prakash	Ph.D.	Anna University	Computational Fluid (Heat Transfer)	19.06.2013	11.91 Years	Associate Professor	Associate Professor	-	Regular	NA	Yes	-
16	Dr. R. Bhoopathi	Ph.D.	Anna University	CAD	03.06.2011	13.91 Years	Assistant Professor	Associate Professor	01.08.2022	Regular	NA	Yes	-
17	Dr. N. Vinayaga Muruga Pandy	Ph.D.	IIITDM	Bio Mechanical Engineering	09.06.2022	2.91 Years	Assistant Professor	Associate Professor	01.08.2023	Regular	NA	Yes	-
18	Dr .A. Manivannan	Ph.D.	Anna University	Metal matrix composites for thermal applications	01.07.2022	2.83 Years	Assistant Professor	Associate Professor	01.03.2023	Regular	NA	Yes	-
19	Mr. S. Ravindran	M.E.	Anna University	Engineering Design	13.02.2008	17.25 Years	Assistant Professor	Associate Professor	01.08.2022	Regular	NA	Yes	-
20	Mr. R. Senthil Kumar	M.E.	Anna University	Manufacturing Engineering	21.06.2010	14.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
21	Mr. K. Vetrivel Murugan	M.Tech.	VIT University	CAD/CAM	25.06.2012	12.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
22	Mr. V. Prabu	M.E.	Anna University	Advanced Manufacturing	30.05.2013	12 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
23	Mr. M. Sudhakar	M.E.	Anna University	Energy Engineering	12.06.2013	11.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-

24	Mr. R. Rajaprasanna	M.E.	Anna University	Manufacturing Technology	22.07.2013	11.83 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
25	Mr. S. Ganapathy	M.Tech	Pondicherry University	CAD	09.06.2014	10.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
26	Mr. S.K. Dinesh Kumar	M.E.	Anna University	CAD	09.06.2014	10.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
27	Mr. S. Krishnaraj	M.E.	Anna University	CAD	12.06.2014	10.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
28	Mr. A. Ravinthiran	M.E.	Anna University	CAD	12.06.2014	10.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
29	Mr. T. Babu	M.Tech	SRM University	CAD	01.06.2015	9.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
30	Mr. L. Ravikumar	M.E.	Anna University	Manufacturing Engineering	05.06.2015	9.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
31	Mr. V. Ranjith Kumar	M.E.	Anna University	Engineering Design	16.06.2016	8.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
32	Mr. S. Siva Chandran	M.E.	Anna University	Solar Energy	16.06.2016	8.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-

CAY m1 2023-24

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/ Ad hoc)	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	Dr. A. Rajendra Prasad	Ph.D.	Anna University	Energy Engineering	04.09.1998	25.66 Years	Assistant Professor	Professor & Dean (Student Affairs)	01.08.2005	Regular	NA	Yes	-
2	Dr. B. Vijaya Ramnath	Ph.D.	Anna University	Production Engineering	31.01.2000	24.33 Years	Assistant Professor	Professor & Head	01.08.2011	Regular	NA	Yes	
3	Dr. U. Tamilarasan	Ph.D.	Anna University	Composite Materials	01.10.1996	27.58 Years	Assistant Professor	Professor	10.06.2016	Regular	NA	Yes	-
4	Dr. K. Venkataraman	Ph.D.	Vel's University	Mechanical Engg.	15.06.2009	14.75 Years	Assistant Professor	Professor	01.06.2022	Regular	NA	Yes	-
5	Dr. L. Saravana Kumar	Ph.D.	JNT University	Thermal Plant Engineering	31.03.2006	18.16 Years	Assistant Professor	Professor	01.06.2022	Regular	NA	Yes	-

6	Mr. U. Balamurugan	M.E.	Vel Tech University	I.C.Engines	01.06.2022	2.0 Years	Associate Professor (Adjunct Faculty)	Associate Professor (Adjunct Faculty)	-	Regular	NA	Yes	-
7	Dr. S. Ramachandran	Ph.D.	I.I.T Madras	Industrial Robotics	09.01.2013	11.33 Years	Professor	Adjunct Professor	01.06.2021	Regular	NA	Yes	-
8	Dr. S. Vaidyanathan	Ph.D.	I.I.T Bombay	Thermal Engineering	14.06.2013	10.91 Years	Professor	Adjunct Professor	01.06.2021	Regular	NA	Yes	-
9	Mr. G. Ramakrishnan	M.E.	Anna University	Computer Integrated Manufacturing	02.09.1996	27.67 Years	Assistant Professor	Associate Professor	01.08.2014	Regular	NA	No	29.06.2024
10	Dr. S. Arunprasad	Ph.D.	Anna University	Manufacturing Engineering	21.06.2006	17.93 Years	Assistant Professor	Associate Professor	01.08.2013	Regular	NA	Yes	-
11	Dr. R. Ashok Gandhi	Ph.D.	Annamalai University	Production Engineering	04.08.2008	15.75 Years	Assistant Professor	Associate Professor	01.08.2011	Regular	NA	Yes	-
12	Dr. N. Vasudevan	Ph.D	Anna University	Computer Integrated Manufacturing	03.08.2009	14.58 Years	Assistant Professor	Associate Professor	01.08.2014	Regular	NA	Yes	-
13	Dr.V. Ravi Raj	Ph.D.	Anna University	Product Design & Development	19.08.2009	14.58 Years	Assistant Professor	Associate Professor	01.08.2014	Regular	NA	Yes	-
14	Dr. S. Rajesh	Ph.D.	St.Peters University	CAD/CAM	01.06.2012	11.91 Years	Assistant Professor	Associate Professor	01.06.2019	Regular	NA	Yes	-

15	Dr. C. Parswajinan	Ph.D.	SCSVMV University	CAD	18.10.2012	11.58 Years	Assistant Professor	Associate Professor	01.06.2019	Regular	NA	Yes	-
16	Dr. M. Arul Prakash	Ph.D.	Anna University	Computational Fluid (Heat Transfer)	19.06.2013	10.91 Years	Associate Professor	Associate Professor	-	Regular	NA	Yes	-
17	Dr. R. Bhoopathi	Ph.D.	Anna University	CAD	03.06.2011	12.91 Years	Assistant Professor	Associate Professor	01.08.2022	Regular	NA	Yes	-
18	Dr. N. Vinayaga Muruga Pandy	Ph.D.	IIITDM	Bio Mechanical Engineering	09.06.2022	1.91 Years	Assistant Professor	Associate Professor	01.08.2023	Regular	NA	Yes	-
19	Dr. A. Manivannan	Ph.D.	Anna University	Metal matrix composites for thermal applications	01.07.2022	1.83 Years	Assistant Professor	Associate Professor	01.03.2023	Regular	NA	Yes	-
20	Mr. V. Velmurugan	M.E.	Anna University	Engineering Design	27.06.2006	17.91 Years	Assistant Professor	Associate Professor	01.08.2022	Regular	NA	No	Transferred to Mech.& Automation Dept. 31.05.2024
21	Mr. S. Ravindran	M.E.	Anna University	Engineering Design	13.02.2008	16.25 Years	Assistant Professor	Associate Professor	01.08.2022	Regular	NA	Yes	-
22	Ms. A. Dhanalakshmi	M.Tech	Pondicherry University	Energy Tech	07.12.2009	14.42 Years	Assistant Professor	Assistant Professor	-	Regular	NA	No	29.06.2024
23	Mr. V. Pandyaraj	M.E.	Anna University	Engineering Design	09.06.2010	13.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	No	Transferred to Mech.& Automation Dept. 31.05.2024

24	Mr. R. Senthil Kumar	M.E.	Anna University	Manufacturing Engineering	21.06.2010	13.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
25	Mr. T. Ganesh	M.E.	Anna University	Manufacturing Engineering	03.06.2011	12.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	No	31.05.2024
26	Mr. K. Vetrivel Murugan	M.Tech.	VIT University	CAD/CAM	25.06.2012	11.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
27	Mr. V. Prabu	M.E.	Anna University	Advanced Manufacturing	30.05.2013	11 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
28	Mr. M. Sudhakar	M.E.	Anna University	Energy Engineering	12.06.2013	10.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
29	Mr. M.C. Anand Chakravarthi	M.E.	Anna University	IC Engineering	26.06.2013	10.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	No	31.05.2024
30	Mr. R. Rajaprasanna	M.E.	Anna University	Manufacturing Technology	22.07.2013	10.81 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
31	Mr. S. Ganapathy	M.Tech	Pondicherry University	CAD	09.06.2014	9.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
32	Mr. S.K. Dinesh Kumar	M.E.	Anna University	CAD	09.06.2014	9.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
33	Mr. S. Krishnaraj	M.E.	Anna University	CAD	12.06.2014	9.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-

34	Mr. A. Ravinthiran	M.E.	Anna University	CAD	12.06.2014	9.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
35	Mr. M. Murugan	M.E.	Anna University	Manufacturing Engineering	01.06.2015	8.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	No	31.05.2024
36	Mr. T. Babu	M.Tech	SRM University	CAD	01.06.2015	8.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
37	Mr. L. Ravikumar	M.E.	Anna University	Manufacturing Engineering	05.06.2015	8.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
38	Mr. P. Vijaya Rajan	M.E.	Anna University	Production Engineering	05.06.2015	8.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	No	31.05.2024
39	Mr. V. Ranjith Kumar	M.E.	Anna University	Engineering Design	16.06.2016	7.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
40	Mr. M. Raajasekar	M.E.	Anna University	Engineering Design	16.06.2016	7.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	No	31.05.2024
41	Mr. S. Siva Chandran	M.E.	Anna University	Solar Energy	16.06.2016	7.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
42	Mr. M. Manojkumar	M.E.	Anna University	CAD/CAM	16.06.2016	7.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	No	29.06.2024
43	Mr. E. Vetre Selvan	M.E.	Anna University	CAD/CAM	03.10.2017	6.58 Years	Assistant Professor	Assistant Professor	-	Regular	NA	No	Transferred to Mech.& Automation Dept. 31.05.2024

CAYm2 2022-23

S. No.	Name of the Faculty Member	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)	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	Dr. A. Rajendra Prasad	Ph.D.	Anna University	Energy Engineering	04.09.1998	24.66 Years	Assistant Professor	Professor & Dean (Student Affairs)	01.08.2005	Regular	NA	Yes	-
2	Dr. B. Vijaya Ramnath	Ph.D.	Anna University	Production Engineering	31.01.2000	23.33 Years	Assistant Professor	Professor & Head	01.08.2011	Regular	NA	Yes	-
3	Dr. U. Tamilarasan	Ph.D.	Anna University	Composite Materials	01.10.1996	26.58 Years	Assistant Professor	Professor	10.06.2016	Regular	NA	Yes	-
4	Dr. K. Venkataraman	Ph.D.	Vel's University	Mechanical Engg.	15.06.2009	13.75 Years	Assistant Professor	Professor	01.06.2022	Regular	NA	Yes	-
5	Dr. L. Saravana Kumar	Ph.D.	JNT University	Thermal Plant Engineering	31.03.2006	17.16 Years	Assistant Professor	Professor	01.06.2022	Regular	NA	Yes	-

6	Mr. U. Balamurugan	M.E.	Vel Tech University	I.C.Engines	01.06.2022	1.0 Years	Associate Professor (Adjunct Faculty)	Associate Professor (Adjunct Faculty)	-	Regular	NA	Yes	-
7	Dr. S. Ramachandran	Ph.D.	I.I.T Madras	Industrial Robotics	09.01.2013	10.33 Years	Professor	Adjunct Professor	01.06.2021	Regular	NA	Yes	-
8	Dr. S. Vaidyanathan	Ph.D.	I.I.T Bombay	Thermal Engineering	14.06.2013	9.91 Years	Professor	Adjunct Professor	01.06.2021	Regular	NA	Yes	-
9	Mr. G. Ramakrishnan	M.E.	Anna University	Computer Integrated Manufacturing	02.09.1996	26.67 Years	Assistant Professor	Associate Professor	01.08.2014	Regular	NA	Yes	-
10	Dr. S. Arunprasad	Ph.D.	Anna University	Manufacturing Engineering	21.06.2006	16.91 Years	Assistant Professor	Associate Professor	01.08.2013	Regular	NA	Yes	-
11	Dr. R. Ashok Gandhi	Ph.D.	Annamalai University	Production Engineering	04.08.2008	14.75 Years	Assistant Professor	Associate Professor	01.08.2011	Regular	NA	Yes	-
12	Dr. V. M. Manickavasagam	Ph.D.	Vel's University	Mechanical Engg	19.01.2009	13.75 Years	Assistant Professor	Associate Professor	01.02.2014	Regular	NA	No	Expired on 04.11.2022
13	Dr. N. Vasudevan	Ph.D	Anna University	Computer Integrated Manufacturing	03.08.2009	13.58 Years	Assistant Professor	Associate Professor	01.08.2014	Regular	NA	Yes	-
14	Mr.V. Ravi Raj	M.E.	Anna University	Product Design & Development	19.08.2009	13.58 Years	Assistant Professor	Associate Professor	01.08.2014	Regular	NA	Yes	-
15	Dr. S. Rajesh	Ph.D.	St.Peters University	CAD/CAM	01.06.2012	10.91 Years	Assistant Professor	Associate Professor	01.06.2019	Regular	NA	Yes	-

16	Dr. C. Parswajinan	Ph.D.	SCSVMV University	CAD	18.10.2012	10.58 Years	Assistant Professor	Associate Professor	01.06.2019	Regular	NA	Yes	-
17	Dr. M. Arul Prakash	Ph.D.	Anna University	Computational Fluid (Heat Transfer)	19.06.2013	9.91 Years	Associate Professor	Associate Professor	-	Regular	NA	Yes	-
18	Dr. R. Bhoopathi	Ph.D.	Anna University	CAD	03.06.2011	11.91 Years	Assistant Professor	Associate Professor	01.08.2022	Regular	NA	Yes	-
19	Mr. V. Velmurugan	M.E.	Anna University	Engineering Design	27.06.2006	16.91 Years	Assistant Professor	Associate Professor	01.08.2022	Regular	NA	Yes	-
20	Mr. S. Ravindran	M.E.	Anna University	Engineering Design	13.02.2008	15.25 Years	Assistant Professor	Associate Professor	01.08.2022	Regular	NA	Yes	-
21	Dr. N. Vinayaga Muruga Pandy	Ph.D.	IIITDM	Bio Mechanical Engineering	09.06.2022	0.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
22	Dr. A. Manivannan	Ph.D.	Anna University	Metal matrix composites for thermal applications	01.07.2022	0.83 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
23	Ms. A. Dhanalakshmi	M.Tech	Pondicherry University	Energy Tech	07.12.2009	13.42 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
24	Mr. V. Pandyaraj	M.E.	Anna University	Engineering Design	09.06.2010	12.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-

25	Mr. R. Senthil Kumar	M.E.	Anna University	Manufacturing Engineering	21.06.2010	12.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
26	Mr. T. Ganesh	M.E.	Anna University	Manufacturing Engineering	03.06.2011	11.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
27	Mr. K. Vetrivel Murugan	M.Tech.	VIT University	CAD/CAM	25.06.2012	10.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
28	Mr. V. Prabu	M.E .	Anna University	Advanced Manufacturing	30.05.2013	10 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
29	Mr. M. Sudhakar	M.E.	Anna University	Energy Engineering	12.06.2013	9.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
30	Mr. M.C. Anand Chakravarthi	M.E.	Anna University	IC Engineering	26.06.2013	9.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
31	Mr. R. Rajaprasanna	M.E.	Anna University	Manufacturing Technology	22.07.2013	9.83 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
32	Mr. S. Ganapathy	M.Tech	Pondicherry University	CAD	09.06.2014	8.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
33	Mr. S.K. Dinesh Kumar	M.E.	Anna University	CAD	09.06.2014	8.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
34	Mr. S. Krishnaraj	M.E.	Anna University	CAD	12.06.2014	8.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-

35	Mr. A. Ravinthiran	M.E.	Anna University	CAD	12.06.2014	8.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
36	Mr. M. Murugan	M.E.	Anna University	Manufacturing Engineering	01.06.2015	7.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
37	Mr. T. Babu	M.Tech	SRM University	CAD	01.06.2015	7.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
38	Mr. L. Ravikumar	M.E.	Anna University	Manufacturing Engineering	05.06.2015	7.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
39	Mr. P. Vijaya Rajan	M.E.	Anna University	Production Engineering	05.06.2015	7.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
40	Mr. D. Prabu	M.Tech.	Pondicherry University	Product Design & Manufacturing	22.06.2015	7.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	No	Transferred to Mech.& Automation Dept. 31.05.2023
41	Mr. S. Ramanathan	M.E.	Sathyabama University	CAD	16.06.2016	6.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	No	Transferred to Mech.& Automation Dept. 31.05.2023
42	Mr. V. Ranjith Kumar	M.E.	Anna University	Engineering Design	16.06.2016	6.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
43	Mr. M. Raajasekar	M.E.	Anna University	Engineering Design	16.06.2016	6.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
44	Mr. P. Anbarasu	M.E.	Anna University	Engineering Design	16.06.2016	6.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	No	Transferred to Mech.& Automation Dept. 31.05.2023

45	Mr. S. Siva Chandran	M.E.	Anna University	Solar Energy	16.06.2016	6.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
46	Mr. M. Manojkumar	M.E.	Anna University	CAD/CAM	16.06.2016	6.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
47	Mr. E. Vetre Selvan	M.E.	Anna University	CAD/CAM	03.10.2017	5.58 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-

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

CAY 2024-25

S.No.	Name of the Faculty Member	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)	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	Dr. N. Mani	Ph.D.	Anna University	Fracture Mechanics	18.04.2012	13.08 Years	Professor	Professor	-	Regular	NA	Yes	-
2	Dr. I. Vimal Kannan	Ph.D	Anna University	Design and Testing of Thin walled Structures	09.06.2022	2.91 Years	Assistant Professor	Associate Professor	01.08.2023	Regular	NA	Yes	-
3	Dr. G. Ravi	Ph.D	Anna University	Welding Technology and Additive Manufacturing	10.06.2022	2.91 Years	Assistant Professor	Associate Professor	01.06.2024	Regular	NA	Yes	-
4	Mr. V. Velmurugan	M.E.	Anna University	Engineering Design	01.06.2024	0.99 Year	Associate Professor	Associate Professor	-	Regular	NA	Yes	-
5	Mr. D. Prabhu	M.Tech.	Pondicherry University	Product Design & Manufacturing	01.06.2023	1.99 Year	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
6	Mr. S. Ramanathan	M.E.	Sathyabama University	CAD	01.06.2023	1.99 Year	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-

7	Mr. P. Anbarasu	M.E.	Anna University	Engineering Design	01.06.2023	1.99 Year	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
8	Mr. V. Pandyaraj	M.E.	Anna University	Engineering Design	01.06.2024	0.99 Year	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
9	Mr. E. Vetreselvan	M.E.	Anna University	CAD/CAM	01.06.2024	0.99 Year	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-

CAY m1 2023-24

S. No.	Name of the Faculty Member	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)	If contractual, mention Full time or (Part time or hourly	Currently Associated (Y/N)	Date of Leaving if any (In case Currently Associated is "No")
1	Dr. N. Mani	Ph.D.	Anna University	Fracture Mechanics	18.04.2012	12.08 Years	Professor	Professor	-	Regular	NA	Yes	-
2	Dr. I. Vimal Kannan	Ph.D	Anna University	Design and Testing of Thin walled Structures	09.06.2022	1.91 Years	Assistant Professor	Associate Professor	01.08.2023	Regular	NA	Yes	-
3	Dr. G. Ravi	Ph.D	Anna University	Welding Technology and Additive Manufacturing	10.06.2022	1.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-

4	Mr. D. Prabhu	M.Tech.	Pondicherry University	Product Design & Manufacturing	01.06.2023	0.99 Year	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
5	Mr. S. Ramanathan	M.E.	Sathyabama University	CAD	01.06.2023	0.99 Year	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
6	Mr. P. Anbarasu	M.E.	Anna University	Engineering Design	01.06.2023	0.99 Year	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-

CAY m2 2022-23

S. No.	Name of the Faculty Member	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)	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	Dr. N. Mani	Ph.D.	Anna University	Fracture Mechanics	18.04.2012	11.08 Years	Professor	Professor	-	Regular	NA	Yes	-
2	Dr. I. Vimal Kannan	Ph.D	Anna University	Design and Testing of Thin walled Structures	09.06.2022	0.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-
3	Dr. G. Ravi	Ph.D	Anna University	Welding Technology and Additive Manufacturing	10.06.2022	0.91 Years	Assistant Professor	Assistant Professor	-	Regular	NA	Yes	-

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.*

Year	CAY (2024-25)	CAYm1 (2023-24)	CAYm2 (2022-23)
UG1. B (2nd year students of UG1 program)	120+11 =131	120+12* =132	120+11=131
UG1. C (3nd year students of UG1 program)	120+12*=132	120+11 =131	240+24*=264
UG1. D (4th year students of UG1 program)	120+11 =131	240+24*=264	240+17 = 257
UG1 // Total no. of students(2nd, 3rd, 4th) in UG1 Program **(Mechanical Engineering)**	$UG_1B + UG_1C + UG_1D$ =**394**	$UG_1B + UG_1C + UG_1D$ =**527**	$UG_1B + UG_1C + UG_1D$ =**652**
UG2. B (2nd year students of UG2 program)	60+01= 61	60+05 =65	60+06*=66

UG2. C (3nd year students of UG2 program)	60+05 = 65	60+06*=66	-
UG2. D (4th year students of UG2 program)	60+06*=66	-	-
UG2 // Total no. of students(2nd, 3rd, 4th) in UG2 Program **(Mechanical and Automation Engineering)**	UG_2.B+ UG_2.C+ UG_2.D = **192**	UG_2.B+ UG_2.C+ UG_2.D = **131**	UG_2.B+ UG_2.C+ UG_2.D = **66**
PG1. A // 1st year students of PG1 program	06	06	12
PG1. B // 2nd year students of PG1 program	06	12	18
PG1 // Total no. of students(1st, 2nd) in PG1 program **(ME CAD/ CAM)**	PG_1.A + PG_1.B = **12**	PG_1.A + PG_1.B = **18**	PG_1.A + PG_1.B = **30**
DS=Total no. of students in all UG and PG programs in the Department	UG_{1+} PG_1 = 394+12=**406**	UG_1+PG_1 =527+18**=545**	UG_1+PG_1 = 652+30=**682**
AS=Total no. of students of all UG and PG programs in allied departments	UG_2 = **192**	UG_2 = **131**	UG_2 = **66**
S=Total no. of students in the Department (DS) and allied departments (AS)	S1=**598** 586 (all UGs)+12(PG)	S2=**676** 658 (all UGs)+18(PG)	S3=**748** 718 (all UGs)+30(PG)
DF=Total no. of faculty members in the Department	32	43	46
AF= Total no. of faculty members in the allied Departments	09	06	03
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	F1 = **41**	F2 = **49**	F3 = **49**
FF=The faculty members in F who have a 100% teaching load in the first-year courses	--	--	--
Student Faculty Ratio (SFR)=S/(F-FF)	SFR1=S1/F1 =598 / 41 = **14.59**	SFR2=S2/F2 = 676/49 =**13.80**	SFR3=S3/F3 =748/49 = **15.27**
Average SFR for 3 years	Average SFR=(SFR1+SFR2+SFR3)/3 = (14.59+13.80+15.27) / 3 **= 14.55**		

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	FQI= 2.5 * [(10X +4Y)/RF]
CAY 2024-25	20	21	30	FQI=2.5 x [(10x20) + (4x21)] / 30] = 23.67
CAY m1 2023-24	19	30	34	FQI=2.5 x [(10x19) + (4x30)] / 34] = 22.79
CAY m2 2022-23	16	33	38	FQI=2.5 x [(10x16) + (4x33)] / 38] = 19.21

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 Faculty (RF1)	Available Faculty (AF1)	Required Faculty (RF2)	Available Faculty (AF2)	Required Faculty (RF3)	Available Faculty (AF3)
CAY 2024-25	4	8	7	15	20	18
CAY m1 2023-24	4	8	8	15	23	26
CAY m2 2022-23	5	8	9	12	25	29
Average Numbers	RF1 = 13/3 = 4.33 ≈ **5**	AF1 = 24/3 = **8**	RF2 = 24/3 = **8**	AF2=42/3 =**14**	RF3=68/3 =22.67≈ **23**	AF3 = 73/3 =24.33 **≈ 25**

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
CAYm1 (2023 - 2024)				
1.	Mr. U. Balamurugan	Adjunct Faculty/ Mech. Engg.	• Automotive Systems • Vehicle Fabrication	25 30
2.	Dr. S. Ramachandran	Adjunct Professor/ Mech. Engg.	• Robotics	65
3.	Dr. S. Vaidyanathan	Adjunct Professor/ Mech. Engg.	• Engineering Thermodynamics • Thermal Science Lab	54 56
			Total no. of hours:	**230**
CAYm2 (2022 - 2023)				
1.	Mr. U. Balamurugan	Adjunct Faculty/ Mech. Engg.	• Automotive Systems • Vehicle Fabrication	22 30
2.	Dr. S. Ramachandran	Adjunct Professor/ Mech. Engg.	• Automotive Systems	56
3.	Dr. S. Vaidyanathan	Adjunct Professor/ Mech. Engg.	• Environment and Energy Management • Heat transfer • Constitution of India	45 69 24
			Total no. of hours:	**246**
CAYm3 (2021 - 2022)				
1	Dr. S. Ramachandran	Adjunct Professor/ Mech.Engg.	• Product Design and Development • Computer Aided Design and Manufacturing • Project Work	51 41 46
2	Dr. S. Vaidyanathan	Adjunct Professor / Mech.Engg.	• Basic Thermal sciences	50

			• Heat transfer • Project Work	63 46
			Total no. of hours:	**297**

C6: Academic Research

Table No. C6.1: *Faculty publication details.*

S.N.	Item	CAYm1 (2023 - 2024)	CAYm2 (2022 - 2023)	CAYm3 (2021 - 2022)
1	No. of peer reviewed journal papers published	19	34	21
2	No. of peer reviewed conference papers published	41	26	20
3	No. of books/book chapters published	17	08	04

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)
CAYm1 (2023 - 2024)							
1	Dr. N. Vinayaga Muruga Pandy	Nil	Mechanical Engineering	Development of Novel Orthopaedic Surgical Drilling Machine Suitable For Minimally Invasive Surgery	ANRF-TARE, DST, New Delhi.	3 Years	6.10
2	Mr. S. Ganapathy	Nil	Mechanical Engineering	Optimization of Design Parameters of A Green Energy Double Helical Two Blade Hydrofoil Hydrokinetic Turbines Based on Water Flume Tests And Validation By Deployment at the Sites	SERB-TARE, New Delhi.	3 Years	6.10

3	Mr. R. Rajaprasanna	NIL	Mechanical Engineering	Design And Fabrication of Autonomous Moisture Management System for Agricultural Sustainability Using IOT	TNSCST - Student Project Scheme	1 Year	0.075
						Amount received (Rs.)	**12.275**
CAYm2 (2022 - 2023)							
1	Mr. S. Ganapathy	Nil	Mechanical Engineering	Optimization of Design Parameters of A Green Energy Double Helical Two Blade Hydrofoil Hydrokinetic Turbines Based on Water Flume Tests And Validation By Deployment at the Sites.	SERB-TARE, New Delhi.	3 Years	6.10
2	Dr. R. Bhoopathi	Nil	Mechanical Engineering	"Design And Fabrication of Multipurpose Automated Foot Step Mechanism For Physically Challenged Person."	TNSCST - Student Project Scheme	1 Year	0.075
						Amount received (Rs.)	**6.175**
CAYm3 (2021 - 2022)							
1	Mr. S. Ganapathy	Nil	Mechanical Engineering	Optimization of Design Parameters of A Green Energy Double Helical Two Blade Hydrofoil Hydrokinetic Turbines Based on Water Flume Tests And Validation By Deployment at the Sites.	SERB-TARE, New Delhi.	3 Years	6.10
2	Dr. R. Ashok Gandhi	Mr. A. Ravinthiran Mr. V Pandyaraj	Mechanical Engineering	"Design, Development and Demonstration of one Vertical Axis Free Flow Helical Clustered Water Turbine in Mizoram"	DST, Ministry of Science and Technology, New Delhi	5 Years	8.16
						Amount received (Rs.)	**14.26**
						Total Amount (Lacs) Received for the Past 3 Years	**32.71 Lacs**

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)
CAYm1 (2023 - 2024)							
1	Dr. L. Saravana Kumar	Nil	Mechanical Engineering	Enhancing Shop Floor Productivity And Energy Savings.	Vasanth Gears, Coimbatore	3 Months	0.22
2	Dr. R. Bhoopathi	Nil	Mechanical Engineering	Fixture Design For Eccentric Work-Specimen.	SPECTO Tools, Ambattur, Chennai.	3 Months	0.059
3	Dr. K. Venkataraman	Nil	Mechanical Engineering	Quality Competitiveness Through Material Productivity.	Viruksa Manufacturing Solutions Pvt. Ltd., Chennai	6 Months	0.25
4	Dr. B. Vijaya Ramnath	Nil	Mechanical Engineering	Reverse Engineering of Hydro Turbine Blade.	CADDAM Technologies Pvt. Ltd., Chennai	6 Months	0.20
						Amount received (Rs.)	**0.729**
CAYm2 (2022 - 2023)							
1	Mr. E. Vetre Selvan	Nil	Mechanical Engineering	Design and Fabrication of Fixture for Integrated Classroom Tables	Sri Sai Fusion Techno Works, Chennai	6 Months	0.95
2	Mr A Ravinthiran	Nil	Mechanical Engineering	Design of Microwave Pyrolysis Reactor	Revo Technologies & Enterprises, Chennai.	6 Months	0.75
3	Mr. K. Vetrivel Murugan	Nil	Mechanical Engineering	Design and Component Selection of Wind Tunnel for Multiple Applications	Sanjmar Industries (OPC) Pvt, Ltd., Chennai.	5 Months	0.55
						Amount received (Rs.)	**2.25**

CAYm3 (2021 - 2022)							
1	Dr. R. Ashok Gandhi	Nil	Mechanical Engineering	Design Of NACA Profile Blades For Wind Turbine Applications	IND DEED TECH Pvt. Ltd., Chennai.	3 months	0.10
2	Dr. B. Vijaya Ramnath	Nil	Mechanical Engineering	Optimization of Gear Box Casing	CADDAM Technologies Pvt. Ltd., Chennai.	6 months	0.205
3	Mr. A Ravinthiran	Nil	Mechanical Engineering	Design and Fabrication of Chaff Cutter	Revo Technologies & Enterprises, Chennai.	4 Months	0.48
4	Mr. D. Prabhu	Nil	Mechanical Engineering	Design and Fabrication of Fixture for Specialized Components	Sri Sai Fusion Techno Works, Chennai	6 Months	0.75
Amount received (Rs.)							**1.535**
Total Amount (Lacs) Received for the Past 3 Years (0.729 + 2.25 + 1.535 = 3.764)							**4.514 Lacs**

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
CAYm1 (2023 -2024)						
1	Dr. B. Vijaya Ramnath	Development of Articulator of Dental application version 1	10.11.2023	1,50,000	1,50,000	Educational and Training Tool Used in dental schools for teaching occlusion and jaw mechanics. Gives students a hands-on experience to visualize complex mandibular movements
2	Dr. B. Vijaya Ramnath	Development of Articulator of Dental application version 2	08.02.2024	1,18,240	1,18,240	Improved Communication Between dentist and lab technician: Clear communication of occlusal relationships. Facilitates case presentations and consultations with patients.

3	Dr. B. Vijaya Ramnath	Development of Articulator of Dental application version 3	08.03.2024	1,00,000	1,00,000	Improved Diagnosis and Treatment Planning Accurate simulation of mandibular (jaw) movements allows dentists to assess occlusion (bite) more precisely. Helps in identifying occlusal interferences, TMJ disorders, and malocclusion
Amount received(Rs.)						**3,68,240**
CAYm2 (2022 -2023)						
1	Dr. J. Rajesh Dr. L. Saravana Kumar Dr. M. Arul Prakash Mr. S. Ravindran	Manufacturing of Interlocking Bricks Using Hempcrete	01.08.2022	1,75,000	1,75,000	Environmental Sustainability, Improved Construction Efficiency, Excellent Insulation and Thermal Properties, Cost-Effectiveness
2	Dr. B. VijayaRamnath Dr. S. Arunprasad Mr. S. Krishnaraj Mr. R. Senthil Kumar	Design And Fabrication of Low Cost Tractor With Multiple Farming Operations	01.08.2022	2,00,000	2,00,000	Multi-Functionality, Increased Productivity, Empowerment of Small Farmers,
Amount received(Rs.)						**3,75,000**
CAYm3 (2021 -2022)						
Amount received(Rs.)						**Nil**
Total Amount (Lacs) Received for the Past 3 Years (3.68240 + 3.75=7.432)						**7.432 Lacs**

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	No. of students per setup (Batch Size)	Name of the major equipment	Weekly utilization status (all the courses for which the lab is utilized)	Technical Manpower support		
					Name of the technical staff	Designation	Qualification
1.	Manufacturing Technology Lab - I I Block - Ground Floor Room No. I 1101	2 students per setup for a batch of 30 students	All gear head / Padmini	35 hours per week	Mr. D. Jayaraj	Lab Assistant	ITI
			All gear head / PL -4				
			Norton gear / PL - 4 lathe				
			Cone pulley / PL-4 lathe				
			Norton gear /Omega pilot lathe				
			Norton gear / PL–4				
			All gear head /Banka				
			All gear head /Panther brand				
			Light duty protech lathe				
			Radial drilling machine				
			Drilling machine pillar type				

S. No	Name of the Laboratory	No. of students per setup (Batch Size)	Name of the major equipment	Weekly utilization status (all the courses for which the lab is utilized)	Technical Manpower support		
					Name of the technical staff	Designation	Qualification
2.	Manufacturing Technology Lab-II J Block -Ground Floor Room No. J 1101	4 students per setup for a batch of 30 students	Shaping Machine	18 Hours per Week	Mr. R. Velmurugan	Lab Assistant	ITI
			Universal Milling Machine (R-2m)(Raman) (4”x11”)				
			Vertical Turret milling machine				
			Hydraulic surface grinding machine (H-600) (10”x26”)				
			Surface grinding machine				
			Cylindrical grinding machine				
			Slotting Machine				
			Tool and cutter grinding machine (master 8”)				
			Centerless grinding machine				
			Universal milling machine				
			Hydraulic hacksaw machine				
			Planner				
			Gear hobbing machine				

S. No.	Name of the Laboratory	No. of students per setup (Batch Size)	Name of the major equipment	Weekly utilization status (all the courses for which the lab is utilized)	Technical Manpower support		
					Name of the technical staff	Designation	Qualification
3.	Strength of Materials Laboratory K Block-Ground Floor Room No. K 1101	5 students per setup for a batch of 30 students	Universal Tensile Testing machine (Analog)–40 Ton Capacity Computerized Universal Tensile Testing machine–40 Ton Capacity Torsion Testing Machine (60 NM Capacity) Digital Torsion Testing Machine Impact Testing Machine (300 J Capacity) Brinell& Rockwell Hardness Testing Machine Spring Testing Machine for tensile and compressive loads (2500 N) Digital Spring Testing Machine Deflection Apparatus Strain measurement apparatus using Strain gauge Fatigue Testing Machine Linisher polisher machine Disc Polishing machine Metallurgical Microscopes Muffle Furnace (800º C) Jominy Apparatus	21 Hours per week	Ms. S. Anitha	Lab Technician	DCE

S. No	Name of the Laboratory	No. of students per setup (Batch Size)	Name of the major equipment	Weekly utilization status (all the courses for which the lab is utilized)	Technical Manpower support		
					Name of the technical staff	Designation	Qualification
4.	Fluid Mechanics & Machinery Laboratory L Block - Ground Floor Room No. L 1101	4 students per setup for a batch of 30 students	Variable speed centrifugal pump test rig	21 Hours per week	Mr. M. Lakshmanan	Lab-Assistant	ITI
			Multi stage Centrifugal Pump test rig				
			Reciprocating Pump test rig				
			Self Priming pump test rig				
			Gear Oil Pump test rig				
			Submersible Pump test rig				
			Pelton Wheel Turbine test rig				
			Francis Turbine test rig				
			Orifice Meter Apparatus				
			Venturi Meter Apparatus				
			V-Notch Apparatus				
			Bernoulli's Apparatus				
			Pipe Friction Apparatus				
			Metacentric Height Apparatus				
			Pitot Tube closed circuit & Pitot Tube Air closed circuit				
			Flow Measurement- Rotameter				
			Kaplan Turbine test rig				

S. No	Name of the Laboratory	No. of students per setup (Batch Size)	Name of the major equipment	Weekly utilization status (all the courses for which the lab is utilized)	Technical Manpower support		
					Name of the technical staff	Designation	Qualification
5.	Internal Combustion Engine Laboratory. M Block - Ground Floor Room No. M 1101	4 students per setup for a batch of 30 students	Variable Compression Ratio Engine Test Rig with Eddy Current Loading set up Single Cylinder Four Stroke Diesel Engine Test Rig with Mechanical Loading set up Single cylinder Four Stroke Diesel Engine Test Rig with Electrical Loading set up Single Cylinder Four Stroke Diesel Engine Test Rig with Hydraulic Loading set up. Twin Cylinder Four Stroke Diesel Engine Test Rig with Electrical Loading set up Multi cylinder Four Stroke Petrol Engine Test Rig with Mechanical Loading setup (MORSE TEST) Single Cylinder Four Stroke Petrol Engine Test Rig with Mechanical Loading setup Single Cylinder Four Stroke Diesel Engine Test Rig with Mechanical Loading and Retardation setup Single Cylinder Four Stroke Diesel Engine Test Rig with Mechanical Loading and Heat Balance setup Twin Cylinder Four Stroke Diesel Engine Test Rig with Mechanical Loading setup	18 Hours per Week	Mr. M. Arul Doss	Lab Technician	DME

S. No	Name of the Laboratory	No. of students per setup (Batch Size)	Name of the major equipment	Weekly utilization status (all the courses for which the lab is utilized)	Technical Manpower support		
					Name of the technical staff	Designation	Qualification
	Internal Combustion Engine Laboratory. M Block - Ground Floor Room No. M 1101	4 students per setup for a batch of 30 students	Multi Cylinder Four Stroke Petrol Engine Test Rig with Hydraulic Loading setup				
			Single Cylinder Four Stroke Petrol Engine Test Rig with Electrical Loading setup				
			Single Cylinder Four Stroke Diesel Engine Test Rig with Eddy Current Loading setup				
			Single Cylinder Four Stroke Diesel Engine Test Rig with Mechanical Loading setup				
			Two Stage Double Acting Reciprocating Air Compressor				
			Steam Boiler with Turbine setup.				
			Low Speed Wind tunnel.				
			Flash and Fire Point Apparatus				
			Red Wood Viscometer Apparatus				

S. No	Name of the Laboratory	No. of students per setup (Batch Size)	Name of the major equipment	Weekly utilization status (all the courses for which the lab is utilized)	Technical Manpower support		
					Name of the technical staff	Designation	Qualification
6.	Heat Transfer Laboratory. M Block - First Floor Room No. M 2101	4 students per setup for a batch of 30 students	Guarded plate apparatus – Thermal conductivity	18 Hours per Week	Mr. S. Ganesan	Lab. Assistant	ITI
			Lagged pipe apparatus-composite plane wall				
			Natural convection-vertical cylinder Apparatus				
			Forced convection inside tube apparatus				
			Composite wall apparatus				
			Thermal conductivity of insulating powder apparatus				
			Pin-fin apparatus-Forced convection and Natural convection				
			Stefan-Boltzmann apparatus				
			Emissivity measurement apparatus				
			Parallel /counter flow heat exchanger apparatus				
			Refrigeration test rig				
			Air-conditioning test rig				

S. No	Name of the Laboratory	No. of students per setup (Batch Size)	Name of the major equipment	Weekly utilization status (all the courses for which the lab is utilized)	Technical Manpower support		
					Name of the technical staff	Designation	Qualification
7.	Kinematics and Dynamics Laboratory. L Block – First Floor Room No. L 2101	4 students per setup for a batch of 30 students	Cam Profile Analysis Setup	21 Hours per Week	Mr.M.Suresh	Lab Assistant	ITI
			Vibrating Table Setup				
			Turn Table Apparatus				
			Fly Wheel & Connecting rod apparatus				
			Transverse Vibration Of Free Beam				
			Motorized Gyroscope				
			Balancing Of Reciprocating masses				
			Balancing Of Rotating Masses				
			Vibration Apparatus				
			Whirling Of Shaft setup				
			Spring Mass System				
			Dynamic Balancing system				
			Multi Degree Of Freedom setup				
			Universal Governor (Watt, Porter , Proell,Hartnell Governors)				

S.N.	Name of the Laboratory	No. of students per setup (Batch Size)	Name of the major equipment	Weekly utilization status (all the courses for which the lab is utilized)	Technical Manpower support		
					Name of the technical staff	Designation	Qualification
8.	Mechatronics and Robotics Laboratory. K Block – First Floor Room No. K 2101	4 students per setup for a batch of 30 students	Basic Pneumatics Trainer kit	21 hours per week	MrJ.Vivekanandan	Lab. Technician	DME
			Electro Basic Pneumatics Trainer kit with PLC				
			Electro Pneumatics Trainer kit				
			Stepper Motor Interfacing Board				
			PID Controller Trainer Kit				
			Servo control of AC & DC Drives				
			Traffic light control interface .				
			Stepper motor interfacing with 8051 microcontroller				
			Automation Studio. Hydraulic and Pneumatic Trainer kit.				
			Basic Pneumatics Trainer kit				
			Electro Basic Pneumatics Trainer kit with PLC				
			Electro Pneumatics Trainer kit				

S. No	Name of the Laboratory	No. of students per setup (Batch Size)	Name of the major equipment	Weekly utilization status (all the courses for which the lab is utilized)	Technical Manpower support		
					Name of the technical staff	Designation	Qualification
9.	Metrology Laboratory K Block – First Floor Room No. K 2102	4 students per setup for a batch of 30 students	Floating Carriage Micrometer Pneumatic Comparator Torque Measurement setup Temperature Measurement setup Displacement Measurement setup Tool Makers Microscope Optical Auto collimator Force Measurement setup Profile Projector Gear Tooth Vernier Calipers Vernier Height Gauges Vernier Calipers Micrometers Dial Gauges Sine Bar and slip gauges	18 Hours per Week	Mr.N.Sridhar	Lab Technician	DME B.E

S. No	Name of the Laboratory	No. of students per setup (Batch Size)	Name of the major equipment	Weekly utilization status (all the courses for which the lab is utilized)	Technical Manpower support		
					Name of the technical staff	Designation	Qualification
10.	Basic Workshop - I Carpentry, Plumbing & Sheet metal work I Block – First Floor Room No. I 2101	1 student per setup for a batch of 30 students	Bench drilling machines Bench grinding machine Bench vices and hand tools	35 Hours per Week	Mr.M.Sathyamoorthy	Lab Technician	DME
11.	Basic Workshop - II Welding shop J Block – First Floor Room No. J 2101	1 student per setup for a batch of 30 students	Arc welding transformer sets Gas welding sets Gas Cutting sets	35 Hours per Week	Mr.S.Mathivanan	Lab Technician	ITI
12.	CAD LAB-I Computer Aided Drafting and Modeling Lab- 1 K Block – Second Floor Room No. K 3102	1 student per computer for a batch of 30 students	**SOFTWARE - USER LICENSE** Auto CAD - 150 Nos **HARDWARE - 50 NOS** **Dell Optiplex**3040 Desktop 6th Gen Intel Core i5 Processor, 4GB Ram, 1 TB Hard disk, Dos, DVD Drive, 18.5” LED Monitor	35 Hours per Week	Mr.E. Venkatesan	Lab Technician	DME

S. No	Name of the Laboratory	No. of students per setup (Batch Size)	Name of the major equipment	Weekly utilization status (all the courses for which the lab is utilized)	Technical Manpower support		
					Name of the technical staff	Designation	Qualification
13.	CAD LAB-II Simulation & Analysis lab K Block – Second Floor Room No. K 3103	1 student per Computer for a batch of 30 students	**SOFTWARE - USER LICENSE** ANSYS - 5 NOS SOLIDWORKS - 10 NOS UNIGRAPHICS - 08 NOS CATIA - 15 NOS **HARDWARE - 40 NOS** **Dell Optiplex 3040** Desktop 6th Gen Intel Core i5 Processor, 4GB Ram, 1 TB Hard disk, Dos, DVD Drive, 18.5" LED Monitor.	35 Hours per Week	Mr.S. Vijaya Kumar	Lab Technician	B.E DME
14.	CAD LAB-III Computer Aided Modeling and Simulation Lab- 2 K Block – Second Floor Room No. K 3104	1 student per Computer for a batch of 30 students	**SOFTWARE- USER LICENSE** PRO E CREO - 25 NOS PRO E wild fire - 50 NOS **HARDWARE - 30 NOS** **Dell Optiplex 3040** Desktop 6th Gen Intel Core i5 Processor, 4GB Ram, 1TB Hard disk, Dos, DVD Drive, 18.5" LED Monitor.	35 Hours per Week	Ms.S. Mahalakshni	Lab Technician	DME

S. No	Name of the Laboratory	No. of students per setup (Batch Size)	Name of the major equipment	Weekly utilization status (all the courses for which the lab is utilized)	Technical Manpower support		
					Name of the technical staff	Designation	Qualification
15.	CAM Laboratory B Block – Ground Floor Room No. B 1502	3 student per setup for a batch of 30 students	CNC Turning Centre – LMW : LLV 15 TL3 Vertical Machining Centre – LMW : LV45	18 Hours per Week	Mr.N.Sridhar Mr.J.Vivekanandan	Lab Technician	DME B.E DME

D2: Safety Measures in Laboratories

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

S. No	Name of the Laboratory	Safety Measures
1.	Manufacturing Technology Lab – I	✓ Students must ensure safety guards are in place before operating any machinery ✓ Confirm emergency stop buttons are functional and accessible. ✓ Deactivate and disconnect machines before tool changes
2.	Manufacturing Technology Lab – II	
3.	Strength of Material Laboratory	✓ Ensure the work piece is properly aligned and securely clamped before starting any test, and confirm load capacities and equipment settings to prevent overloading. ✓ Always use guards or cages wherever applicable. ✓ Wear gloves while handling specimens.
4.	Kinematics and Dynamics Laboratory	✓ Keep your hands and clothes away from rotating or vibrating components during operation. ✓ Strictly follow the prescribed speed limits and load capacities at all times.
5.	Metrology Laboratory	✓ Position instruments on a pristine, sturdy, and vibration-free surface. ✓ Refrain from contacting measurement surfaces with ungloved hands to prevent corrosion caused by perspiration or oil. ✓ Precise instruments should be handled with care. ✓ Utilize dust coverings while instruments are not in operation.
6.	Fluid Mechanics & Machinery Laboratory	✓ Avoid operating switches or panels with damp hands. ✓ The laboratory floor must be dry to prevent slips and electrical risks; promptly mop up any water spills. ✓ Power must be deactivated prior to doing any maintenance or modifications on equipment.
7.	Internal Combustion Engine Laboratory.	✓ Inspect for gasoline leaks prior to initiating any engine operation. ✓ Engines may only be started in the presence of a lab in charge/technician. ✓ Ensure enough ventilation to prevent the buildup of exhaust gasses. ✓ Ensure that hands, tools, and materials are maintained at a safe distance from rotating elements such as flywheels and belts. ✓ Avoid contact with hot surfaces (engine block, exhaust manifold) during or soon after operation
8.	Heat Transfer Laboratory.	✓ Avoid contact with metal surfaces or test sections during or soon after operation, as they may be quite hot. ✓ Always check that the cooling water flow is activated (if appropriate) prior to energizing the heater.

S. No	Name of the Laboratory	Safety Measures
9.	Mechatronics Laboratory	✓ Consistently check wiring and connections prior to energizing any control system. ✓ Avoid contact with live wires and use insulated tools for connections. ✓ For pneumatic systems, verify that the air supply is off prior to dismantling or altering any configuration. ✓ Refrain from connecting or disconnecting electrical components while the system is powered.
10.	Basic Workshop I & II	✓ General Rules of Dos and Don'ts in Laboratories are displayed. ✓ Hand gloves, Safety shoes, Welding goggles, should be used in the lab
11.	CAD Lab- I , II & III	✓ Students are required to log in only using their designated credentials and refrain from installing unapproved software. ✓ Refrain from disconnecting or interfering with wires linked to CPUs, displays, or networking devices. ✓ Promptly report flickering displays, exposed cables, or inoperative ports to laboratory personnel.
12.	CAM Laboratory	✓ Check the tool paths and material positions before running the program. ✓ Mark safety zones around automated machines ✓ Handle the CMM probes carefully. These are precision instruments, and even small bumps or drops can cause damage or inaccuracies in measurements.

D3: Project Laboratory/Research Laboratory/ Centre of Excellence

Table No. D3.1 *list of Facilities available in project laboratory.*

S. No	Equipment/ Facility	Available Laboratory	Utilization	Relevance to PO's / PSO's
1.	Fatigue Testing Machine	Strength of materials Lab	SAE M BAJA vehicle fabricating students uses this to understand and analyze the behavior of materials used in their vehicle under repeated or cyclic loading.	PO1,PO2, PSO1,PSO2
2.	3D Printing machine	CAM Lab	Support project development in areas like automotive parts, and product design.	PO2,PO3, PO4, PO5,PSO1
3.	Creo	CAD Lab	Perform simulations and stress analysis to test design functionality and durability for students projects and vehicle fabrication	PO2,PO3, PO4, PO5,PSO1, PSO2
4.	Ansys	CAD Lab	Reduce the need for physical prototypes, saving time and cost in research. used for students projects and vehicle fabrication	PO2,PO4,PO 5,PSO1, PSO1,PSO2
5.	Auto cad	CAD Lab	Produce detailed views for manufacturing and fabrication of components used for students projects	PO1, PO1,PO2, PO4, PO5,PSO1,P SO2
6.	Infrared heater	Material Research centre	Composite Manufacturing used for research work and students projects	PO1,PO2, PSO1

Table No. D3.2 *List of Equipments in Research Laboratory*

S. No	Name of the Equipment	Utilization	PO's/ PSO's
1	Computational Biomechanics Laboratory	Simulation and modeling of biomechanical related problems for ANRF TARE project and research.	PO1,PO2, PO3,PO4,PO5, PSO1, PSO2
2	Stir casting Machine	Used in the manufacturing and research of metal matrix composites (MMCs)	PO1,PO2, PO3,PO4, PSO1, PSO2
3.	Wire cut EDM	machining of hard-to-cut materials used in students projects and research	PO1,PO2, PO3,PO4,, PSO1, PSO2
4	Crucible furnace	Used for melting of metals for preparing composite structures for Vehicle fabrication	PO1,PO2, PO3,PO4, PSO1
5	Cryogenic Treatment test rig:	Used for UG,PG students projects and research	PO1, PO2, PO3, PO4, PSO1
6	Salt sprayer	Used for UG,PG students projects and research	PO1,PO2, PO3,PO4, , PSO1

Table No D3.3: *List of Equipment's available in Delphi-TVS Technologies centre of Excellence*

Sl.No	Description	Quantity	Unit cost	Value
1	CR Pump	12	40,000	4,80,000
2	CR Filter	10	950	9,500
3	CR Rail	10	15,000	1,50,000
4	CR Injector	17	19000	3,23,000
5	ECU	6	18,000	1,08,000
6	Acrylic Stand	30	12,000	3,60,000
7	ACP Board	12	2000	24000
8	Fixture	5	11000	55,000
9	Filter	5	850	4250
10	AL P15 Engine with harness	1 set		15,25,000
Total				**30,38,750**

PART E: Fist 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))/RF4
CAY (2024 - 2025)	1770	89	82	15	77.51%
CAY*m*1 (2023 - 2024)	1680	84	72	18	72.86%
CAY*m*2 (2022 - 2023)	1560	78	71	13	76.15%

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

Table No. E2.1: *Budget and actual expenditure incurred at Institute level (in Lacs)*

Items	Budgeted in CFY (2024 – 2025)	Actual expenses in CFY (Feb. 2025)	Budgeted in CFYm1 (2023 - 2024)	Actual Expenses in CFYm1	Budgeted in CFYm2 (2022 - 2023)	Actual Expenses in CFYm2	Budgeted in CFYm3 (2021 - 2022)	Actual Expenses in CFYm3
Infrastructure Built-Up	1125.00	1490.64	1600.00	2225.04	825.00	791.30	175.00	106.30
Library	35.00	29.57	55.00	42.75	55.00	53.84	75.00	77.98
Laboratory equipment	530.00	569.70	317.50	557.70	345.00	338.36	240.00	299.27
Teaching and non-teaching staff salary	5040.00	5182.48	4205.00	4379.40	3780.00	3542.78	3354.00	3206.16
Outreach Programs	125.00	137.00	150.00	160.63	115.00	162.31	47.00	59.07
R&D	185.00	187.85	185.00	206.72	142.00	188.37	71.00	68.63
Training, Placement and Industry linkage	135.00	129.73	230.00	186.58	205.00	208.12	95.00	86.99
SDGs	94.00	95.40	80.00	78.94	45.00	85.39	23.00	19.02
Entrepreneurship	95.00	95.00	80.00	78.95	75.00	80.09	20.00	22.81
Others*, pl. specify	3239.86	3507.19	2961.05	3242.00	2078.95	2191.08	1032.56	1206.98
Total amount	**10603.86**	**11424.56**	**9863.55**	**11158.71**	**7665.95**	**7641.64**	**5132.56**	**5153.21**

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 CFY (2024 – 2025)	Actual Expenses in CFY (till Feb 25)	Budgeted in CFYm1 (2023 – 2024)	Actual Expenses in CFYm1	Budgeted in CFYm2 (2022 – 2023)	Actual Expenses in CFYm2	Budgeted in CFYm3 (2021 – 2022)	Actual Expenses in CFYm3
Laboratory equipment	3,950,000	3,080,063	2,500,000	2,201,558	2,850,000	1,639,632	1,800,000	1,427,544
Software	1,125,000	1,070,657	1,300,000	1,322,245	700,000	825,877	650,000	343,380
SDGs	625,000	626,177	650,000	685,151	850,000	995,646	275,000	304,577
Support for faculty development	400,000	405,314	700,000	685,292	1,250,000	1,456,520	350,000	365,227
R & D	1,225,000	1,232,996	1,750,000	1,794,302	1,300,000	1,501,220	1,025,000	1,098,866
Industrial Training, Industry expert, Internship	835,000	851,483	1,650,000	1,619,484	2,100,000	2,426,724	1,300,000	1,392,822
Miscellaneous expenses *	8,275,000	8,780,606	9,850,000	10,617,214	7,500,000	8,626,644	6,000,000	6,537,976
Total amount	**16,435,000**	**16,047,296**	**18,400,000**	**18,925,246**	**16,550,000**	**17,472,263**	**11,400,000**	**11,470,392**