

PART A: Profile of the Institute

A1.Name of the Institute:

- a) **Name of the Institute as registered in the Profile tab on e-NBA portal:**
Dr. M.G.R. Educational and Research Institute (Formerly Dr. M. G.R. Engineering College)
- b) **Name of the Institute as approved by the AICTE:**
Dr. M.G.R. Educational and Research Institute

Year of Establishment: 2003, Location of the Institute: Chennai

A2.Institute Address:

City: Chennai	State: Tamilnadu
Pin code: 600095	Website: www.drmgrdu.ac.in
Email: registrar@drmgrdu.ac.in	Phone No (with STD Code):- 044-23782176, 23782186

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

Not Applicable - Deemed to be University

A4. Type of the Institution:

Institute of National Importance

University

Deemed University ✓

Autonomous

Anyother (Please specify)

A5. Ownership Status:

Central Government

State Government

Government Aided

Self-financing

Trust ✓
 Society
 Section 25 Company

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

	2022-2023	2023-2024	2024-2025	2025-2026
No. of UG programs	21	25	24	25
No. of PG programs	27	27	27	27

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

S.No	Level of Program	Name of the Program	AICTE Approval Status – Yes / No (closed)			
			2022-2023	2023-2024	2024-2025	2025-2026
1	UG	Biotechnology	Yes	Yes	Yes	Yes
2	PG	Biotechnology	Yes	Yes	Yes	Yes
3	UG	Chemical Engineering	Yes	Yes	Yes	Yes
4	PG	Chemical Engineering	Yes	Yes	No	Yes
5	UG	Civil Engineering	Yes	Yes	Yes	Yes
6	UG	Bachelor of Design (B.Des.)	Yes	Yes	Yes	Yes
7	PG	Structural Engineering	Yes	Yes	Yes	Yes
8	PG	Construction Engineering and Management	Yes	Yes	Yes	Yes
9	PG	Construction Engineering	Yes	Yes	Yes	No
10	PG	Environmental Engineering	No	No	No	Yes
11	UG	Computer Science and Engineering	Yes	Yes	Yes	Yes
12	UG	Computer Science and Engineering (Artificial Intelligence)	Yes	Yes	Yes	Yes
13	UG	Computer Science and Engineering (Cyber Security)	Yes	Yes	Yes	Yes
14	UG	Computer Science and Engineering (Data Science)	Yes	Yes	Yes	Yes
15	UG	Computer Science and Engineering (Internet of Things)	Yes	Yes	Yes	Yes

16	UG	Computer Science and Engineering (IOT)	Yes	Yes	Yes	Yes
17	UG	Computer Science and Engineering (Networks)	Yes	Yes	Yes	Yes
18	UG	Computer Science and Engineering and Business systems	Yes	Yes	Yes	Yes
19	UG	Cyber forensics and Information Security	Yes	Yes	Yes	Yes
20	UG	Cyber Physical Systems	No	No	Yes	Yes
21	UG	Computer Science and Business systems	Yes	Yes	Yes	Yes
22	UG	Computer Science and Design	No	Yes	Yes	Yes
23	UG	Artificial Intelligence (AI) and Data Science	No	Yes	Yes	Yes
24	UG	Artificial Intelligence and Machine Learning	Yes	Yes	Yes	Yes
25	PG	Computer Science & Engineering	Yes	Yes	Yes	Yes
26	PG	Cyber forensics and Information Security	Yes	Yes	Yes	Yes
27	UG	Electrical and Electronics Engineering	Yes	Yes	Yes	Yes
28	UG	Biomedical Engineering	Yes	Yes	Yes	Yes
29	PG	Power Systems	Yes	Yes	Yes	Yes
30	UG	Electronics and Communication Engineering	Yes	Yes	Yes	Yes
31	UG	Electronics Engineering (VLSI Design and Technology)	No	Yes	Yes	Yes
32	UG	INDUSTRIAL IOT	No	Yes	No	No
33	PG	VLSI Design and Embedded Systems	Yes	Yes	Yes	Yes
34	UG	Information Technology	Yes	Yes	Yes	Yes
35	PG	Information Technology	No	No	Yes	No
36	UG	Mechanical Engineering	Yes	Yes	Yes	Yes
37	PG	Design Engineering	Yes	Yes	Yes	Yes
38	UG	Robotics and Automation	Yes	Yes	No	No
39	UG	Mechanical and Smart Manufacturing	No	No	No	Yes
40	PG	Energy Engineering	Yes	Yes	No	No
41	PG	MBA	Yes	Yes	Yes	Yes
42	PG	MBA (General Management)	Yes	Yes	Yes	Yes
43	PG	MBA (Innovation,	Yes	Yes	Yes	Yes

		Entrepreneurship and Development)				
44	PG	MBA (Banking and Finance Management)	Yes	Yes	Yes	Yes
45	PG	MBA (Big Data analytics)	Yes	Yes	Yes	Yes
46	PG	MBA (Business Analytics)	Yes	Yes	Yes	Yes
47	PG	MBA (Digital Marketing)	Yes	Yes	Yes	Yes
48	PG	MBA (Financial Management)	Yes	Yes	Yes	Yes
49	PG	MBA (Healthcare Administration)	Yes	Yes	Yes	Yes
50	PG	MBA (Healthcare and Hospital Management)	Yes	Yes	Yes	Yes
51	PG	MBA (Healthcare Management)	Yes	Yes	Yes	Yes
52	PG	MBA (Hospital Management)	Yes	Yes	Yes	Yes
53	PG	MBA (Human Resource Development)	Yes	Yes	Yes	Yes
54	PG	MBA (Human Resource Management)	Yes	Yes	Yes	Yes
55	PG	MBA (Information Management)	Yes	Yes	Yes	Yes
56	PG	MBA (Logistics and supply chain Management)	No	No	Yes	Yes
57	PG	Master of Computer Application	Yes	Yes	Yes	Yes

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

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

S. No.	Name of the Department	Program Name
1	Mechanical Engineering	B.Tech (Mechanical Engineering)

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

S. No.	Name of the Department (In table no. A7.1)	Name of the Allied/Cluster Department (for table no. A7.1)
1	Mechanical Engineering	---

PART B: Program Information

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

TableNo.B1: Program details.

S. N.	Program Name	Year of start	Sanctioned Intake	Increase/decrease in intake, if any	Year of increase / decrease	AICTE/ Competent Authority Approval Details	Accreditation Status*
1	B.E (Mechanical Engineering)	1988-89	60	-	-	F.45-33/91-AICTE/3703 dt 15.10.1991	-
2	B.E (Mechanical Engineering)	1988-89	60	120	2000-01	730-52-217(E)/ET/97	B(3years) F.No .NBA/BRD-ATR/2002 dt 23.08.2002
3	B.E (Mechanical Engineering)	2001-02	120	180	2003-04	NA*	
4	B.Tech (Mechanical Engineering)	2003-04	180	300	2007-08	UGC F.6-1(11)/12006 (Oct. 2006)	
5	B.Tech (Mechanical Engineering)	2007-08	300	180	2014-15		
6	B.Tech (Mechanical Engineering)	2014-15	180	120	2016-17		
7	B.Tech (Mechanical Engineering)	2016-17	120	240	2018-19	AICTE Southern/2018-19/1-3714148411 Dated 30/04/2018	
8	B.Tech (Mechanical Engineering)	2018-19	240	120	2019-20	AICTE Southern/1-4262352547/2	

						019/EOA Dated 29/04/2019	
9	B.Tech (Mechanical Engineering)	2019- 2020	120	60	2021-2022	AICTE Southern/1- 9317885825/2 021/EOA Dated 03/07/2021	NBA Accredited for 3 years – Letter Reference: F.No-33- 300/2013- NBA, Dated:03.02. 2020
10	B.Tech (Mechanical Engineering)	2021- 2022	60	120	2022-2023	AICTE Southern/1- 10975513538/ 2022/EOA Dated 11/07/2022	NBA further Accredited (basis of Compliance Report) for 3 years – Letter Reference: F.No-33- 300/2013- NBA, Dated:15.12. 2022
11	B.Tech (Mechanical Engineering)	2024- 2025	120	---	----	AICTE Southern/1- 38689367708/ 2024/EOA Dated 10/06/2024	

A. List of the Programs Offered by the Department:

S.No	Level of Program	Name of the Program	Academic Year			
			2022-2023	2023-2024	2024-2025	2025-2026
1	UG	Mechanical Engineering	Yes	Yes	Yes	Yes
2	UG	Mechanical and Smart Manufacturing	No	No	No	Yes
3	PG	Design Engineering	Yes	Yes	Yes	Yes

List of the Allied Departments/Cluster and Programs: Nil

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

A. Name of the HOD:	Dr.A.Manojbabu
B. Nature of appointment:	Regular
C. Qualification:	B.E., M.E., 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 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)
N= Sanctioned intake of the program (as per AICTE /Competent authority)	120	120	120	60	120	120
N1=Total no. of students admitted in the 1 st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who	71	74	76	47	78	91

Migrated to this program						
N2= Number of students admitted in 2 nd year in the same batch Via lateral entry including leftover seats	NA	12	18	19	50	12
N3=Separate division if any	00	00	1	00	00	1
N4= Total no. of students admitted in the 1 st year via all supernumerary quotas	00	00	00	00	00	00
Total number of students admitted in the program (N1 + N2 + N3+N4)-excluding those admitted through multiple entry and exit points.	71	86	95	66	128	104

B4. Enrolment Ratio in the First Year

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

Average [(ER1 +ER2 + ER3)/ 3]= 61.39

Item (Students enrolled in the First Year on average over 3 academic years (CAY, CAYm1 and CAYm2))	CAY (2024- 25)	CAYm1 (2023- 24)	CAYm2 (2022- 23)
N= Sanctioned intake of the program in the 1 st year (as per AICTE/Competent authority)	120	120	120
N1=Total no. of students admitted in the 1 st year minus the no. of students, who migrated to other programs/ institutions plus no.of students, who migrated to this program	71	74	76
N4=Total no.of students admitted in the 1 st year via all supernumerary quotas	00	00	00
Enrolment Ratio (ER) = (N1+N4)/N	ER_1= 59.17	ER_2= 61.67	ER_3= 63.33
Average ER = (ER_1+ER_2+ER_3)/3	61.39		

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.
Average SR of three batches $((SR_1 + SR_2 + SR_3)/3)$:55.63

Item	CAYm 4 (LYG) (2020- 2021)	CAYm5 (LYGm1) (2019- 2020)	CAYm6 (LYGm2) (2018- 2019)
A*=(No. of students admitted in the 1 st year of that batch and those actually admitted in the 2 nd year via lateral entry, plus the number of students admitted through multiple entry (if any) and separate division if applicable, minus the number of students who exited through multiple entry (if any).	128	104	154
B=No. of students who graduated from the program in the stipulated course duration	86	49	81
Success Rate(SR)=(B/A)* 100	SR_1= 67.19	SR_2 = 47.12	SR_3 = 52.59
Average SR of three batches $((SR_1 + SR_2 + SR_3)/3)$	55.63		

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

Table No.B6.1: Academic Performance of the First-Year Students of the Program.
Average API $[(AP1 + AP2 + AP3)/3]$: 5.91

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)	6.88	7.02	6.75
Y=Total no.of successful students	58	62	36
Z=Total no.of students appeared in the examination	68	70	43
API=X* (Y/Z)	AP1=5.87	AP2=6.22	AP3=5.65
Average API=(AP1+AP2+AP3)/3	5.91		

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.
Average API [(AP1 + AP2 + AP3)/3] : 6.05

Academic Performance	CAYm1 (2023-2024)	CAYm2 (2022-2023)	CAYm3 (2021-2022)
X= (Mean of 2 nd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2 rd year/10)	6.78	7.12	6.23
Y=Total no.of successful students	74	52	109
Z=Total no.of students appeared in the examination	82	60	116
API=X* (Y/Z)	AP1=6.12	AP2 = 6.17	AP3=5.85
Average API=(AP1+AP2+AP3)/3	6.05		

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 Average API [(AP1 + AP2 + AP3)/3] : 5.98

Academic Performance	CAYm1 (2023-2024)	CAYm2 (2022-2023)	CAYm3 (2021-2022)
X=(Mean of 3 rd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 3 rd year/10)	7.45	7.64	8.01
Y=Total no.of successful students	46	99	63
Z=Total no.of students appeared in the examination	57	121	89
API=X* (Y/Z)	AP1=6.01	AP2=6.25	AP3=5.67
Average API = (AP1+AP2+AP3)/3	5.98		

B9. Placement, Higher Studies, and Entrepreneurship

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

Average Placement Index= $(P_1+P_2+P_3)/3$:PlacementIndexPoints: 67

Item	LYG (2020- 2021)	LYGm1 (2019- 2020)	LYGm2 (2018- 2019)
FS*=Total no. of final year students	128	104	154
X=No.of students placed	83	68	99
Y=No.of students admitted to higher studies	1	1	1
Z=No.of students taking up entrepreneurship	2	2	2
X+Y+Z=	86	71	102
Placement Index(P)= $((X+Y+Z)/FS)*100$	P ₁ = 67	P ₂ = 68	P ₃ = 66
Average placement index= $(P_1+P_2+P_3)/3$	67		

PART C: Faculty Details in Department and Allied Departments
(Data to be filled in for the Department and Allied Departments)

Program Information

C1. Faculty details of Department and Allied Departments

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

S.N.	Name of the Faculty	PAN No.	APAAR faculty ID* (if any)	Highest degree	University	Area of Specialization	Date of Joining in this Institution	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	Currently Associated (Y/N)	Date of Leaving if any (In case Currently Associated is “No”)	Experience in years in current institute
1	Dr.S.Sendilvelan	BETPS6514M	--	Ph.D	Anna Unive rsity	Therm al Power Engin eering	02.01.2015	Professor	Professor	NA	Regular	--	Yes	--	9

2	Dr.M.Ganesan	AAJPG5 271C	--	Ph.D	Dr.M. G.R.E ducati onal and Resear ch Institu te	Desig n Engin eering	21.02.2005	Asso. Professor	Professor	20.01.2020	Regular	--	Yes	--	19
3	Dr.K.Balasubramaniyan	AFHPB 5385B	--	Ph.D	Anna Unive rsity	Indust rial Engin eering	02.08.2021	Professor	Professor	NA	Regular	--	Yes	--	3
4	Dr.N.Ethiraj	AADPE 4918N	--	Ph.D	Anna Unive rsity	Produ ction Engin eering	29.07.1996	Asst. Professor	Professor	10.10.2017	Regular	--	Yes	--	28
5	Dr.K.Rajan	ALGPR 6318D	--	Ph.D	Dr.M. G.R.E .R.I	IC Engin eering	19.07.2007	Asso. Professor	Professor	07.10.2016	Regular	--	Yes	--	17
6	Dr.K.R.Vijayakumar	AOZPK 6632D	--	Ph.D	Anna Unive rsity	Desig n Engin eering	17.06.2004	Asso. Professor	Professor	07.10.2016	Regular	--	Yes	--	20
7	Dr.Jayaprakash	AEZPJ0 257M	--	Ph.D	NIT, Trichy	Indust rial Engin	23.10.2020	Professor	Professor	NA	Regular	--	Yes	--	4

						eering									
8	Dr.M.Chandran	AIIPC19 91L	--	Ph.D	SIST	Therm al Engin ering	22.06.2009	Asso. Professor	Professor	30.08.2019	Regular	--	Yes	--	15
9	Dr.A.Sengolerayan	ASNPS7 042R	--	Ph.D	Jadav pur Unive rsity	Therm al Engin ering	27.10.2023	Asso. Professor	Asso. Professor	NA	Regular	--	Yes	--	1
10	Dr. P. Ravichandra Ganesh	AEIPR6 728J	--	Ph.D ,	JNTU, Anant hapur	Therm al Engin ering	19.06.2000	Asst. Professor	Professor	11.04.2025	Regular	--	Yes	--	24
11	Dr.J.Jayaseelan	AKKPJ4 313K	--	Ph.D	Dr.M. G.R.E .R.I	Manuf acturin g Engin ering	14.12.2009	Asst. Professor	Professor	24.04.2025	Regular	--	Yes	--	15
12	Dr.M.R. Wilson John	AGAPJ2 428F	--	Ph.D	SRM Institu te of Scienc & Techn ology	Therm al Engin ering	16.09.2008	Asst. Professor	Professor	03.06.2025	Regular	--	Yes	--	16

13	Dr. Ashok kumar	ANTPG 4153G	--	Ph.D	Dr.M. G.R.E .R.I	Therm al Engin eering	02.08.2008	Asst. Professor	Asso. Professor	21.03.2023	Regular	--	Yes	--	16
14	Dr.A. Manoj Babu	AMYP M5221H	--	Ph.D	Anna malai Unive rsity	Therm al Power Engin eering	22.02.2006	Asst. Professor	Asso. Professor	08.03.2023	Regular	--	Yes	--	18
15	Dr.F.FredrickGnanaraj	AAQPF 3004P	--	Ph.D	St.Pet er's Institu te of Highe r Educa tion and Resear ch	Comp osite Materi als	09.07.2007	Asst. Professor	Asso. Professor	17.10.2022	Regular	--	Yes	--	17
16	Dr.R.Srinivasan	DXJPS7 370J	--	Ph.D	Dr.M. G.R.E .R.I	CAD/ CAM	21.06.2006	Asst. Professor	Asso. Professor	20.01.2025	Regular	--	Yes	--	18
17	Dr.S.Sundar	BMTPS 0418L	--	Ph.D	Vels Institu te of Scienc e,	Indust rial Engin eering	29.08.1994	Asst. Professor	Asst. Professor	15.07.2016	Regular	--	Yes	--	30

					Technology & Advanced Studies										
18	Dr.A.Kandasamy	BUQPK 4294R	--	Ph.D	Dr.M. G.R.E .R.I	CAD	10.09.2008	Asst. Professor	Asst. Professor	20.07.2016	Regular	--	Yes	--	16
19	Dr.A.Srikrishnan	AMJPA 8325R	--	Ph.D	VIST AS	Applied electronics	01.07.2009	Asst. Professor	Asst. Professor	14.08.2019	Regular	--	No	04.07. 2024	15
20	Dr. Kumar Vijayendra Gopal	AQUPK 4131A	--	Ph.D	Dr.M. G.R.E .R.I	CAD	31.03.2008	Asst. Professor	Asst. Professor	20.07.2016	Regular	--	Yes	--	16
21	Dr.P.Rajkumar	ANWPR 9200Q	--	Ph.D	Vellore Institute of Technology	Energy and Environment	09.07.2014	Asst. Professor	Asst. Professor	NA	Regular	--	Yes	--	10
22	Dr.C.Devi	CFWPD 2300H		Ph.D	el Tech Ranga rajanD	Cryogenic Treat	27.10.2014	Asst. Professor	Assistant Professor	NA	Regular	--	Yes	--	10

					r.Sagument nthala R&D Institu te of Scienc e and Techn ology										
23	Mr.T.Sivabalan	AXLPS 0008E	--	M.E.,	Anna malai Unive rsity	Produ ction Engin eering	18.08.2003	Asst. Professor	Asst. Professor	NA	Regular	--	Yes	--	21
24	Mr.W. Andrew Nallayan	AMUPA 1291R	--	M.E.,	NIT, Trichy	Manuf acturin g Techn ology	02.01.2008	Asst. Professor	Asst. Professor	NA	Regular	--	Yes	--	17
25	Mr.V.VijayaRaghunath an	AUTPV 7377G	--	M.Tech	S.R.M .I.S.T	CAD	22.07.2009	Asst. Professor	Asst. Professor	NA	Regular	--	Yes	--	15
26	Mr.D.A.Vinoth	AVQPV 4498L	--	M.E	Anna Unive rsity	Desig n Engin eering	01.09.2014	Asst. Professor	Asst. Professor	NA	Regular	--	Yes	--	10
27	Mr.S.Saravanan	EVXPS 5631D	--	M.Tech	Dr.M. G.R.E	Desig n	03.08.2015	Asst. Professor	Asst. Professor	NA	Regular	--	Yes	--	9

					.R.I										
28	Mr.S.Kandeeban	AQYPK 9346B	--	M.E.,	SIST	CAD	08.08.2022	Asst. Professor	Asst. Professor	NA	Regular	--	Yes	--	2
29	Mr.R.T.Chandar	AIKPC8 829K	--	M.S.,	Birla Institu te of Techn ology And Scienc e, Pilani (BITS , Pilani)	Qualit y Manag ement	10.08.2016	Asst. Professor	Asst. Professor	NA	Regular	--	Yes	--	8
30	Mr.R.Balaji	CKXPB 5647K	--	M.E	Anna Unive rsity	Energ y Engin eering	27.09.2021	Asst. Professor	Asst. Professor	NA	Regular	--	Yes	--	3
31	Mr.E.Murali	AAFPE 3989D	--	M.E.,	Madra s Unive rsity	Therm al Engin eering	22.08.2022	Asst. Professor	Asst. Professor	NA	Regular	--	Yes	--	2
STAFF INVOLVING ONLY ON RESEARCH															
1	Dr.Narasimhan	AYIPN6	--	Ph.D	Dr.M. G.R.E	Post Harve	20.04.2021	Research Developme	Research Development	NA	Regular	--	Yes	--	4

		894M			.R.I	sting		nt Manager	Manager						
2	Dr.T.Srinivasan	BEMPS 9522Q	--	Ph.D	JNTU	CAD	03.02.2022	Research Scientist	Research Scientist	NA	Regular	--	Yes	--	3
3	Mr.T.Raghu	BQAPR 3224A	--	M.E	BITS Pilani	Desig n Engg.	20.04.2018	Senior Engineer	Senior Engineer	NA	Regular	--	Yes	--	7
4	Mr.S.Karthikeyan	HSBPK 2735Q	--	M.Tech	Dr.M. G.R.E .R.I	Desig n Engg	24.06.2013	Head/Indust rial R&D	Head/Industri al R&D	NA	Regular	--	Yes	--	12

TableNo.C2: Faculty details of Allied Departments for the past 3 years including CAY – Not Applicable

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 [FF])

No. of UG Programs in the Department - 1

No. of PG Programs in the Department – 1

Student	CAY	CAYm1	CAYm2
UG1.B	132	132	66
UG1.C	132	66	132
UG1.D	66	132	132
UG1(UG-Engineering-MECH)	330	330	330
PG1.A	18	18	18
PG1.B	18	18	18
PG1(PG-Engineering-DESIGN)	36	36	36
DS= Total no. of students in The Department (UG1, UG2, UG4, UG5, PG1)	366	366	366
AS= Total no. of students in Allied departments(UG6)	00	00	00
S= Total no. of students in the Department (DS) and allied departments (AS)	S1=366 330(all UGs) +36(PG)	S2=366 330(all UGs) +36(PG)	S3=366 330(allUGs) +36(PG)
DF= No. of faculty members in the Department	30	30	30
AF= No.of faculty members in the allied Departments	00	00	00
F=Total no. of faculty members in the Department (DF) and Allied Departments(AF)	F1=30	F2=30	F3=30
FF=The faculty members who have a 100% teaching load in the first-year courses	05	05	05
Student Faculty Ratio (SFR)=S/(F-FF)	SFR1=366/25= 14.64	SFR2=366/25= 14.64	SFR3=366/25= 14.64
Average SFR for 3years	Average SFR=(14.64+14.64+14.64)/3=14.64		

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).

TableNo.C3.1: Faculty qualification.

Year	X	Y	RF	FQI=2.5*[(10X+4Y)/RF]
CAY	19	11	19	31
CAYm1	15	15	19	28
CAYm2	15	15	19	28
Average Assessment				29

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.

TableNo.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	2	8	4	7	13	15
CAYm1	2	8	4	6	13	16
CAYm2	2	8	4	3	13	19
Average Numbers	RF1=2	AF1=8	RF2=4	AF2=5	RF3=13	AF3=17

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 for CAYm1, CAYm2, CAYm3

S.N.	Name of the Person	Designation & Organization	Name of the Course	No. of hours handled
CAYm1				
1	Mr.S.Pandurangan	Retired Scientist / DRDO	BME18010Industrial Automation	45
			BME18011Design of Machine Elements -II	50
Total number of hours:				95
CAYm2				
1	Mr.S.Pandurangan	Retired Scientist / DRDO	BME18010Industrial Automation	45
			BME18011Design of Machine Elements -II	52
Total number of hours:				97
CAYm3				
1	Mr.S.Pandurangan	Retired Scientist / DRDO	BME18010Industrial Automation	45
			BME18011Design of Machine Elements -II	54
Total number of hours:				99

C6.Academic Research

Table No. C6.1: Faculty publication details

S.N.	Item	CAYm1	CAYm2	CAYm3
1	No. of peer reviewed journal papers published	24	22	21
2	No. of peer reviewed conference papers published	25	3	6
3	No. of books/book chapters published	5	6	3
	Scopus Indexed	24	25	22
	Web of Science Indexed	15	11	10

C7. Sponsored Research Project

TableNo.C7.1: List of sponsored research projects received from external agencies CAYm1, CAYm2, and CAYm3

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 Sanctioned (Lacs)	Amount received (Lacs)
CAY– 2024-2025								
1	Dr. J.Jayaseelan	Dr. K. R. VijayaKumar	Dr. M.G.R. Educational and Research Institute	Modelling and Simulation of Solid Composite Propellant Machining operation using Finite Element Method (ACEM/TRM/CARS/01)	Advanced Centre for Energetic Materials (ACEM), Nasik, DRDO	22/10/2024 to 22/10/2025 (12 months)	9.35 Lakhs	Rs.3,61,322(30-01-2025)
2	Dr. J. Jayaseelan	Dr. K. R. VijayaKumar	Dr. M.G.R. Educational and Research Institute	Development of methodology & cutting tools for machining of deep finocyl slots in rocket motor on 3-axis CNC machine (ACEM/TRM/CARS/03)	Advanced Centre for Energetic Materials (ACEM), Nasik, DRDO	05/03/2025 to 05/11/2025 (8 months)	5.95 Lakhs	Nil
Amount received(Rs.)							15.3	3.61
CAYm1 – 2023-2024								
				Nil				
Amount received(Rs.)								
CAYm2 – 2022-2023								

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1	Dr. J.Jayaseelan, Dr. K. R. Vijaya Kumar		(Start-up: Dr. MGR-ARI Technology Innovations Pvt Ltd) Dr. J.Jayaseelan, Director	Design and development of Robotic propellant machining system (RPMS)	DRDO-TDF	(30-11-2022 to 30-06-2026)	94,50,000	12,26,250 (30-01-2023) 21,26,250 (15-05-2024) Total:34,02,000	
2	R. Logeswaran,	Dr. Wilson John	Dr. M.G.R. Educational and Research Institute	Energy efficient pervaporative thermal management system for electric vehicle batteries	MSME (IDEATN 002802)	(23-07-2022 to 23-07-2023)	13,40,000	1,40,000(13-9-23), 30,000(12-2-24), 30,000(26-6-24)	
3	Jawahar prakash. M	Mr. D. A. Vinoth	Dr. M.G.R. Educational and Research Institute	Dual filament extruder in 3D printing with dual hot end extrusion	MSME (IDEATN 002791)	(23-07-2022 to 23-07-2023)	15,00,000	2,68,284(10-01-2023)	
					Amount received (Rs.)		122.9		
CAYm3 – 2021-2022									
1	Er. S. Karthigeyan	Dr. P. Nagaraja	(Start-up: Dr. MGR-ARI Technology Innovations Pvt Ltd)	Recovery of Lithium from used Lithium Iron Batteries	DRDO-TDF	(21-04-2022 to 21-06-2025)	57,08,700	9,74,500 (26-08-22) 12.34 30/03/24 Total:22,08,500	
					Amount received(Rs.)		57.08		
Total Amount (Lacs) Received for the Past 3 Years							(caym1, caym2, caym3)	179.98	60.29

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 during CAYm1, CAYm2, and CAYm3

S.N	PI name	Co-PI names if any	Name of project sanctioned	Project title*	Name of the Funding agency	Duration of the project	Amount Sanctioned (Lacs)	Amount received (Lacs)
CAYm1 – 2023-2024								
1	Dr. R. Narashimhan		ARI, Dept of Mechanical Engg	Destoner Sieve Life enhancement	RR Rice Industries	July -2023 to August-2024	2.00	2.0 (10-11-2024)
2	Dr. T. Srinivasan		ARI, Dept of Mechanical Engg	Scaffolding, Ferrule wire rope	Neo Wind India	April-2024 to March-2025	2.00	2.00(20-03-2024)
3	Er. Raghu		ARI, Dept of Mechanical Engg	Underwater Stereo camera	CMLRE (MoES)	30-03-2024 to 15-05-2025	19.00	19.00(30-03-2024)
Total Amount in Lacs (Rs.)							23	23
CAYm2 – 2022-2023								
1	Er. T. Raghu	Er.N. Melvin Selvakumar	ARI, Dept of Mechanical Engg	Autonomous Surface Boat trajectory control	M/s SAIF Automation	Feb-2023 to June 2024	3.00	1.85(28-02-2023)
2	Dr. Srinivasan	Er. Sankar	ARI, Dept of Mechanical Engg	Automation & casting	Pioneer NF Forgings	Dec-2022 to August-2023	4.50	4.05(21-01-2023)

3	Dr. J.Jayaseelan	Dr. K. R. Vijaya Kumar	Dr. M.G.R. Educational and Research Institute	Research and development of compact ergonomic working chair	B4S Business Solutions, Chennai	07-07-2022- 07-07- 2023)	1.10 lakhs	30,000 (22-07-22), 50,000 (27-08-22), 20,000 (29-08-22)
4	Dr. R. Narashimhan		ARI, Dept of Mechanical Engg	Plant & Machinery for Paddy and Millet Processing	MSME & Arivar Cluster	March - 2023 to March-2028	10.00 lakhs	Yet to receive
Total Amount in Lacs (Rs.)							18.6	6.9
CAYm3 – 2021-2022								
				Nil				
Total Amount in Lacs (Rs.)							---	---
Total Amount (Lacs) Sanctioned and Received for the Past 3 Years (CAYm1, CAYm2, CAYm3)							41.6	29.9

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 during CAYm1, CAYm2, and CAYm3

S.N.	Faculty name	Project title/ Support Activity for	Duration	Amount (Lacs)	Amount Utilized (Lacs)	Outcomes of the project
CAYm1 – 2023-2024						
			Nil			
CAYm2 – 2022-2023						
			Nil			
CAYm3 – 2021-2022						
1	Er. T. Raghu	Autonomous underwater Vehicle	March-2022 to March -	8.00	8.00	Participated in Singapore IEEE

		(TOMMY)- 500 m	2023			International Challenge - 5 th Rank
2	Mr. T. Sivabalan, Mr. D.A. Vinoth	Dual Nozzle Extrusion System In 3-DPrinting Technology for Composite materials	22-12-2021 to 21-12-2022	1,50,000	1,50,628	1 MSME Project sanctioned value: 15 lakhs (IDEATN 002791) 1 working model made 1 Ph D work initiated
3	Dr. K. R. Vijayakumar, Dr. J.Jayaseelan	Design and Development of rice kernel enriched with multiple micro nutrients through hot extrusion process	22-12-2021 to 21-12-2022	1,00,000	1,00,000	2 journals published, 1 Patent applied, 1 SERB project proposal submitted, 1 prototype made 2 M.E projects completed
4	Dr. K.Rajan, Mr. P. Rajkumar	Development of Single stage fixed bed reactor for Co-Pyrololysis Process	22-12-2021 to 21-12-2022	1,00,000	1,00,000	2 journal papers submitted 1 DST project proposal submitted 1 working model made
Total Amount in Lacs (Rs.)					11.5	11.5
Total amount (Lacs) Sanctioned and received for the past 3 years					11.5	11.5

PART D: Laboratory Infrastructure in the Department
(Data to be filled in for the Department)

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

TableNo.D1.1: List of laboratories and technical manpower

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
1	Internal Combustion Engines Lab	30	1. Four stroke four-cylinder petrol engine with hydraulic dynamometer (1 No.) 2. Four stroke single-cylinder diesel engine with prony brake (1 No.) 3. Four stroke single-cylinder diesel engine with eddy current dynamometer (2 Nos.) 4. Four stroke single-cylinder diesel engine with rope brake (2 Nos.) 5. Four stroke single-cylinder petrol engine with	20 Hours	Mr. K. Raju	Lab Instructor	C.T.I (Fitter)

			<p>AC generator (1 No.)</p> <p>6. Four stroke single-cylinder petrol engine with eddy current dynamometer (1 No.)</p> <p>7. Four stroke single-cylinder diesel engine with rheostat (1 No.)</p> <p>8. Four stroke single-cylinder diesel engine cut-section model (2 Nos.)</p> <p>9. Two stroke single-cylinder petrol engine cut-section model (2 Nos.)</p>				
2	Machine Shop	30	<p>1. Centre Lathe (5 Nos.)</p> <p>2. All geared lathe (1 No.)</p> <p>3. Capstan lathe (1 No.)</p> <p>4. Drilling machine (2 Nos.)</p> <p>5. Milling machine (1 No.)</p> <p>6. Shaping machine (1 No.)</p> <p>7. Slotting machine (1 No.)</p> <p>8. Cylindrical grinding machine (1 No.)</p>	18 Hours	Mr. L. D. Thirunavukkarasu	Lab Instructor	I.T.I

			<p>9. Surface grinding machine (1 No.)</p> <p>10. Bench grinder (1 No.)</p> <p>11. Tool and cutter grinder (1 No.)</p> <p>12. Gear hobbing machine (1 No.)</p> <p>13. Mechanical power press (1 No.)</p> <p>14. FDM 3D printer (1 No.)</p>				
3	Automation Lab	30	<p>1. Multi-process trainer (1 No.)</p> <p>2. PLC (1 No.)</p> <p>3. Basic electro-pneumatic with PLC trainer kit (1 No.)</p> <p>4. Basic pneumatic trainer kit (1 No.)</p> <p>5. Flow/Temperature/Pressure process control trainer kit (1 No.)</p> <p>6. Computer system with automation studio software- (10 Nos)</p>	18 Hours	Mr. N. Siva	Lab Instructor	DME, M.A
4	Dynamics Lab	30	<p>1. Compound Pendulum Apparatus (1 No.)</p> <p>2. Universal Governor</p>	16 Hours	Mr. N. Siva	Lab Instructor	DME, M.A

			<p>Apparatus (1 No.)</p> <p>3.Porter Governor Apparatus (1 No.)</p> <p>4.Proell Governor Apparatus (1 No.)</p> <p>5.Cam Analysis Apparatus (1 No.)</p> <p>6.Motorized Gyroscope Apparatus (2 Nos)</p> <p>7.Whirling of Shaft Apparatus (2 Nos)</p> <p>8.Torsional vibration apparatus (1 No.)</p> <p>9. Transverse vibration apparatus (1 No.)</p> <p>10. Torsional vibration apparatus (1 No.)</p> <p>11. Balancing of rotating masses apparatus (1 No.)</p> <p>12.Balancing of reciprocating masses apparatus (1 No.)</p>				
5	Heat Transfer	30	1. Air Compressor (1 No.)	20 Hours	Mr. R. Sarangapa	Lab	I.T.I (Fitter)

	Lab		2. Air blower (1 No.) 3. Redwood (2 Nos.) 4. Saybolt apparatus (1 No.) 5. Refrigeration system (2 Nos.) 6. Air Conditioning system (2 Nos.) 7. Pin Fin apparatus (1 No.) 8. Emissivity of Gray body apparatus (2 Nos.) 9. Thermal conductivity of insulating materials (1 No.) 10. Stefan Boltzmann constant (1 No.) 11. Heat Exchanger (parallel and counter flow) (2 Nos.) 12. Composite wall (2 Nos.) 13. Drop and Film wise Condensation (1 No.)		ni	Instructor	
6	CAM Lab	30	1. CNC Turning Machine (1 No.) 2. CNC Milling Machine (1 No.) 3. CNC Train Simulation	20 Hours	Mr. Jebin Vijayakumar	Lab Instructor	M.E (CAD)

			Software (30 Users)				
7	CAD Lab	30	1. Computer System with CATIA V5 Modeling Software (30 Nos.)	24 Hours	1.Mr. Jebin Vijayakumar 2.Mr. K.R. Nagenthiran	Lab Instructor System Administrator	M.E (CAD) B.Tech (IT)
8	Metrology Lab	30	1. Sine Bar – (5Nos) 2.Slip Gauge – 3 boxes 3.Dial Gauge (5 Nos.) 4. Vernier Height Gauge (4 Nos.) 5.Vernier Depth Micrometer (6 Nos.) 6.Bevel Protractor (5 Nos.). 7.Autocollimator (2 Nos.) 8. Gear Tooth Vernier (3 Nos.) 9. Profile Projector (1 Nos.) 10. Tool Makers Microscope (2 Nos.) 11.Mechanical	18 Hours	Mr. R. Sarangapani	Lab Instructor	I.T.I (Fitter)

			comparator (1Nos) 12.Optical comparator (1 Nos)				
9	Metallurgy Lab	30	1. Binocular Metallurgical Microscope (10 Nos.) 2. Jominy Quench (1 No.) 3. Brinell Hardness Tester (1 No.) 4.Rockwel hardness Tester(1 No.) 5.Specimen mounting press(1 No.) 6.Disc Polisher - (6 No.) 7.Trinacular microscope set up with computer imaging system 8.Linisher ((1 No.) 9.Muffle furnace (1 No.) 10.Electric furnace (1 No.)	22 Hours	Mr. S. Venugopal	Lab Instructor	Diploma in Automobile Engineering (DAE)
10	Foundry and Welding	15) (Welding),	1. Welding Transformer (TPA 303, 300A & RFD	20 Hours	Mr. N. Mr.Palani	Lab Instructor	I.T.I (Welder)

	Lab	15(Foun dry)	301, 250A) (3 Nos.) 2. DC Inverter (two in one / TIG) (1 No.) 3. Oxygen, Acetylene Cylinders (2 Nos.) 4. Template Automatic Cutting Machine (1 No.) 5. Tools for Making Green Sand Moulds for Flange, Gear, V- Grooved Pulley, T & L Pipes (25 Sets)		vel		
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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	Machine Shop	<p>Do's: Inspect machines and tools before use to ensure they are in good condition. Clean up metal chips and coolant spills immediately to prevent slipping hazards. Turn off machines after use and allow them to come to a complete stop before leaving.</p> <p>Don'ts: Never operate a machine without proper training and instructor supervision. Do not attempt to adjust the machine or remove chips while it is running. Avoid using excessive force while cutting or shaping materials, as it may damage the tool or workpiece.</p>
2	Metrology lab	<p>Do's: Use measuring instruments with proper calibration to ensure</p>

		<p>accuracy. Return instruments to their designated storage after use. Keep the workbench clean and organized to avoid misplacing delicate instruments. Don'ts: Do not drop, mishandle, or expose precision instruments to extreme temperatures. Avoid using tools with oily or dirty hands, as contaminants may affect accuracy. Never apply excessive force when using micrometers, calipers, or gauges.</p>
3	Metallurgy Lab	<p>Do's: Use insulated tools such as tongs when handling hot materials. Inspect furnaces and heating elements before use. Dispose of chemicals and metal residues in designated containers. Don'ts: Never touch molten metal or hot surfaces with bare hands. Do not use cracked or damaged crucibles. Avoid inhaling fumes generated during metal processing.</p>
4	Dynamics Lab	<p>Do's: Check for loose bolts or misalignments before starting an experiment. Wear safety goggles when working with high-speed rotating equipment. Don'ts: Do not overload machines beyond their capacity. Never stand too close to a machine when it is in motion.</p>
5	CAD Lab	<p>Do's: Students should wear proper uniform & ID card Keep the bags in the racks Make sure your external devices are virus free Turn off the Computers when you are no longer using it. In case of any hardware and software problems, Inform the concerned lab authority Arrange the stool/chair in order before leaving Ensure the system is properly shut down before leaving Ensure the system is properly shut down before leaving the lab Ensure Keyboard, Mouse are intact while leaving the lab Don'ts: Do not make any changes in the system/software settings Do not plug/unplug any hardware or cables</p>

		<p>Using mobile phone is strictly prohibited Do not touch, connect, or disconnect any plug or cable without permission Do not Install & un-install any application in the computers</p>
6	CAM Lab	<p>Do's: Enter the lab with proper Dress code Keep the bags in the racks Always ensure safety of men and machines In case of any hardware and software problems, Inform the concerned lab authority Arrange the stool/chair in order before leaving Ensure the system is properly shut down before leaving Ensure the system is properly shut down before leaving the lab Ensure Keyboard, Mouse are in tact while leaving the lab Turn off the machine when you are no longer using it.</p> <p>Don'ts: Do not make any changes in the system/software settings Do not plug/unplug any hardware or cables Using mobile phone is strictly prohibited Do not operate CNC machines, Robots and other machines without permission of lab in charge</p>
7	Thermal Lab	<p>Do's: 1. Enter the lab with proper uniform and shoes. 2. Tools etc are to be received and returned with documents. 3. Always ensure safety of men and machines. 4. Check the fuel before starting the engine 5. Ensure that cooling water supply before starting the engine. 6. After starting the engine remove the crank handle immediately from the shaft. 7. Switch off the power supply when the machine is not in use. 8. In case of emergency, inform the concerned lab authority. 9. Arrange the work area neatly before leaving</p> <p>Don'ts: 1. Don't wear loose garments and accessories 2. No machine should be operated in the absence of lab technician. 3. Don't lean and go close to the rotating parts. 4. Using mobile phone is strictly prohibited.</p>
8	Heat Transfer Lab	<p>Do's: Enter the lab with proper uniform and shoes. Tools etc are to be received and returned with documents</p>

		<p>Switch off the power supply when the machine is not use. In case of emergency, inform the concerned lad authority.</p> <p>Don'ts:</p> <p>Don't wear loose garments and accessories No machine should be operated in the absence the lab technician. Don't lean and go close to the rotating parts. Using mobile phone is strictly prohibited.</p>
<p>9</p>	<p>Foundry and Welding Lab</p>	<p>Foundry Lab</p> <p>Do's:</p> <p>Wear complete Personal Protective Equipment (PPE): apron, gloves, helmet, and safety shoes. Ensure moulding sand, tools, and materials are dry and free from moisture before use. Follow the correct procedure for mould preparation, pouring, and cooling. Maintain a safe distance from molten metal pouring area. Use tools only for their intended purpose and handle them carefully. Report any equipment damage, spills, or injuries immediately to the instructor. Keep fire extinguishers and safety equipment accessible and know how to use them. Work in a team with proper coordination during casting operations. Allow sufficient time for cooling before handling castings. Keep gangways and working areas clear of obstructions.</p> <p>Don'ts:</p> <p>Do not handle molten metal without proper supervision. Do not pour metal into wet or damp moulds (risk of explosion). Do not wear loose clothing, synthetic fabrics, or open footwear. Do not run, joke, or engage in careless behavior inside the lab. Do not touch hot surfaces, moulds, or castings with bare hands. Do not overcrowd near the pouring area. Do not leave furnaces or equipment unattended while in operation. Do not use damaged tools or equipment. Do not dispose of waste materials randomly—follow proper disposal methods. Do not ignore safety signs, alarms, or instructions.</p> <p>Welding Lab</p>

		<p>Do's: Wear Proper PPE(Personal Protective Equipment) Before Entry Understand Safety Rules Check Ventilation Systems Report Any Equipment Issues Keep a Fire Extinguisher Nearby Listen to Instructions Carefully</p> <p>Don'ts: Don't Enter Without Protective Gear . Don't Carry Flammable Items Don't Touch Equipment Without Training Don't Enter If Feeling Unwell . Don't Look Directly at Welding Arcs Don't Leave Without Cleaning Up</p>
10	Automation Lab	<p>Dos: Use proper connectors and fittings; ensure no leaks. Depressurize systems before maintenance or adjustments. Keep hands away from moving actuators and cylinders. Store hoses and tools properly after use.</p> <p>Don'ts: Do not operate with damaged hoses or loose connections. Do not exceed recommended pressure limits. Do not place body parts near high-pressure fluid leaks. Do not tamper with safety valves or system settings.</p>

D3. Project Laboratory/Research Laboratory

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

S.N.	Name of the Laboratory
1.	Project Lab
2.	Research Lab: AR/VR Lab (Augmented and Virtual Reality Lab)
3.	Centre of Excellence: Centre for Green and Bio Materials Manufacturing

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.

Sl.No	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 Science 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
1.	2024-2025	1380	69	70	40	92.75%
2.	2023-2024	1200	60	63	32	94.66%
3.	2022-2023	1140	57	60	30	94.73%
Average Percentage						94.04%

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 CFY-2024-25	Actual expenses in CFY (till ...)	Budgeted in CFYm1 2023-24	Actual Expenses in CFYm1	Budgeted in CFYm2 2022-23	Actual Expenses in CFYm2	Budgeted in CFYm3 2021-22	Actual Expenses in CFYm3
Infrastructure Built-Up	1095	742.71	865	898.19	390	335.27	635	600.43
Library	127	100.13	110	102.09	113	90.63	140	138.91
Laboratory equipment	795	451.08	485	516.9	430	291.07	700	856.42
Teaching and non-teaching staff salary	1520	1647.51	1480	1418.86	915	1361.77	1245	1183.44
Outreach Programs	1.27	0.86	1.3	0.92	1.04	0.95	1.04	1

R&D	215	173.98	180	182.71	160	170.71	285	311.24
Training, Placement and Industry linkage	175	137.08	131	130.7	93	92.43	108	112.93
SDGs	1.28	0.86	1.4	0.91	1.03	0.94	1.03	0.99
Entrepreneurship	1.7	1.145	1.8	1.224	1.38	1.256	1.384	1.328
Others*, pl. specify	3250	2249.13	3550	2538.3	1350	1476.45	2125	1945.26
Computer Equipment	325	298	300	326	250	286	250	306
Laboratory Consumables	157	124.69	123	132.05	105	103.22	160	197.56
Maintenance and Spares	805	648.14	580	634.12	235	236.56	305	351.49
Total amount	8468.25	6575.32	7808.5	6882.97	4044.45	447.256	5956.45	6006.99

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-2024-25	Actual expenses in CFY (till ...)	Budgeted in CFYm1 2023-24	Actual Expenses in CFYm1	Budget ed in CFYm2 2022-23	Actual Expenses in CFYm2	Budgeted in CFYm3 2021-22	Actual Expenses in CFYm3
Laboratory equipment	80	46.09	55	80.19	80	88.82	125	216.86
Software	5	--	18	7.08	5	4.25	5	--
SDGs	3	2.24	3	2.95	3	3.86	3	2.25
Support for faculty development	30	24.95	30	30.71	30	36.17	30	28.28
R&D	15	14.12	15	18.06	25	24.32	30	49.18
Industrial Training, Industry expert, Internship	15	10.83	10	12.65	10	11.85	10	14.54

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Miscellaneous expenses *	0.5	0.28	0.75	0.37	1	0.48	1	0.82
Infrastructure Built up	80	45.9	65	75.28	60	56.33	80	98.98
Library	10	8.03	10	10	10	10.64	12	21.24
Laboratory Consumables	15	10.12	10	13.05	10	15.13	18	28.05
Teaching and Non Teaching Staff salary	350	212.8	350	208.84	350	188.14	350	181.18
Maintanace and Spares	60	51.19	40	61.35	30	32.42	30	46.86
Others	250	154.85	200	225.94	150	217.11	150	273.89
Total amount	913.5	581.4	806.75	746.47	764	689.52	844	962.13