

NATIONAL BOARD OF ACCREDITATION

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

Program Name : Mechanical Engineering	Discipline: Engineering & Technology
Level : Under Graduate	Tier: 1
Application No: 11300	Date of Submission: 28-11-2025

PART A- Profile of the Institute

A1.Name of the Institute: KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY	
Year of Establishment : 1998	Location of the Institute: Virudhunagar
A2. Institute Address: KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY VIRUDHUNAGAR TAMILNADU 626001	
City:VIRUDHUNAGAR	State:Tamil Nadu
Pin Code:626001	Website:www.kamarajengg.edu.in
Email:mail@kamarajengg.edu.in	Phone No(with STD Code):04549-278171
A3. Name and Address of the Affiliating University (if any):	
Name of the University :	City: Chennai
State : Tamil Nadu	Pin Code: 600025
A4. Type of the Institution: Self-Supported Institute	
A5. Ownership Status: Self financing	

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

- No. of UG programs: **9**
- No. of PG programs: **2**

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

Sr.No.	Discipline	Level of program	Name of the program	Year of Start	Year of Closed	Name of The Department
1	Engineering & Technology	UG	Artificial Intelligence and Data Science	2020	--	Artificial Intelligence and Data Science
2	Engineering & Technology	UG	Biotechnology	2002	--	Biotechnology
3	Engineering & Technology	UG	Civil Engineering	2009	--	Civil Engineering
4	Engineering & Technology	PG	Communication and Networks	2011	--	Electronics and Communication Engineering
5	Engineering & Technology	UG	Computer Science and Engineering	1998	--	Computer Science and Engineering
6	Engineering & Technology	UG	Electrical and Electronics Engineering	2002	--	Electrical and Electronics Engineering
7	Engineering & Technology	UG	Electronics & Communication Engineering	1998	--	Electronics and Communication Engineering
8	Engineering & Technology	UG	Information Technology	2001	--	Information Technology
9	Engineering & Technology	UG	Mechanical Engineering	2005	--	Mechanical Engineering
10	Engineering & Technology	UG	Mechatronics Engineering	2014	--	Mechatronics Engineering
11	Engineering & Technology	PG	Power Systems Engineering	2012	--	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.

Name of the Department	Having Allied Departments	Name of the Program	Program Level
Biotechnology	No	Biotechnology	UG
Artificial Intelligence and Data Science	Yes	Artificial Intelligence and Data Science	UG
Mechanical Engineering	Yes	Mechanical Engineering	UG

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

Allied Department/Cluster Name	Program Name	Program Level
Mechatronics Engineering	Mechatronics Engineering	UG

PART-B: Program information

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

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

SR.NO.	PROGRAM NAME	PROGRAM APPLIED LEVEL	YEAR OF START / YEAR OF CLOSED	SANCTIONED INTAKE	INCREASE/DECREASE INTAKE (if any)	YEAR OF INCREASE/DECREASE	CURRENT INTAKE	YEAR OF AICTE APPROVAL	AICTE/COMPETENT AUTHORITY APPROVAL DETAILS	ACCREDITED STATUS
1	Mechanical Engineering	UG	2005 / --	30	Yes	2023	30	2023	Southern/1-3642806855/2023/EOA Dated 02.06.2023	Granted accreditation for 5 years for period (start to end period)

Sanctioned Intake for Last Five Years for the Mechanical Engineering

Academic Year	Sanctioned Intake
2025-26	30
2024-25	30
2023-24	30
2022-23	60
2021-22	60
2020-21	120

List of the Allied Departments/Cluster and Programs:

SR.NO.	ALLIED DEPARTMENT NAME	PROGRAM NAME	PROGRAM APPLIED LEVEL	YEAR OF START / YEAR OF CLOSED	SANCTIONED INTAKE	INCREASE/DECREASE INTAKE (if any)	YEAR OF INCREASE/DECREASE	CURRENT INTAKE	YEAR OF AICTE APPROVAL	AICTE/COMPETENT AUTHORITY APPROVAL DETAILS
1	Mechatronics Engineering	Mechatronics Engineering	UG	2014 / --	60	Yes	2021	30	2021	Southern/1-9321338833/2021

Sanctioned Intake for Last Five Years for the Mechatronics Engineering

Academic Year	Sanctioned Intake
2025-26	30
2024-25	30
2023-24	30
2022-23	30
2021-22	30
2020-21	60

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

A. Name of the HoD :	Dr.S.Thanga kasirajan
B. Nature of appointment:	Regular
C. Qualification:	Ph.D

B3. Program Details

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

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2025-26 (CAY)	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)	2021-22 (CAYm4)	2020-21 (CAYm5)	2019-20 (CAYm6)
N=Sanctioned intake of the program (as per AICTE /Competent authority)	30	30	30	60	60	120	120
N1=Total no. of students admitted in the 1st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	29	19	22	26	32	26	43
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	6	4	5	11	22	19

N3=Separate division if any	0	0	0	0	0	0	0
N4=Total no. of students admitted in the 1st year via all supernumerary quotas	0	0	0	0	0	0	0
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	29	25	26	31	43	48	62

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

B4. Enrolment Ratio in the First Year

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

Year of entry	N (From Table 4.1)	N1 (From Table 4.1)	N4 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2025-26 (CAY)	30	29	0	96.67
2024-25 (CAYm1)	30	19	0	63.33
2023-24 (CAYm2)	30	22	0	73.33

Average [(ER1 + ER2 + ER3) / 3] = 77.78≡ 14.00

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

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

Item	(2021-22) LYG	(2020-21) LYGm1	(2019-20) LYGm2
A*= (No. of students admitted in the 1st year of that batch and those actually admitted in the 2nd year via lateral entry, plus the number of students admitted through multiple entry (if any) and separate division if applicable, minus the number of students who exited through multiple entry (if any).	71.00	142.00	139.00
B=No. of students who graduated from the program in the stipulated course duration	39.00	47.00	58.00
Success Rate (SR)= (B/A) * 100	54.93	33.10	41.73

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 43.25

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

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

Academic Performance	CAYm1(2024-25)	CAYm2(2023-24)	CAYm3 (2022-23)
Mean of CGPA or mean percentage of all successful students(X)	7.55	7.79	7.61
Y=Total no. of successful students	19.00	22.00	26.00
Z=Total no. of students appeared in the examination	19.00	22.00	26.00
API [X*(Y/Z)]	7.55	7.79	7.61

Average API[(AP1+AP2+AP3)/3] : 7.65

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

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

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 2nd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2rd year/10)	7.96	7.42	7.96
Y=Total no. of successful students	26.00	31.00	39.00
Z=Total no. of students appeared in the examination	26.00	31.00	39.00
API [X * (Y/Z)]	7.96	7.42	7.96

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

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

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

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 3rd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 3rd year/10)	7.71	7.93	8.15
Y=Total no. of successful students	31.00	39.00	47.00
Z=Total no. of students appeared in the examination	31.00	39.00	47.00
API [X*(Y/Z)]:	7.71	7.93	8.15

Average API [(AP1 + AP2 + AP3)/3] : 7.93

B9. Placement, Higher Studies, and Entrepreneurship

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

Item	LYG (2021-22)	LYGm1(2020-21)	LYGm2(2019-20)
FS*=Total no. of final year students	71.00	142.00	139.00
X=No. of students placed	37.00	46.00	49.00
Y=No. of students admitted to higher studies	2.00	1.00	2.00

Z= No. of students taking up entrepreneurship	0.00	0.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	54.93	33.10	36.69

Average Placement Index = (P_1 + P_2 + P_3)/3: 41.57 Placement Index Points:

PART C: Faculty Details in Department and Allied Departments

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

C1. Faculty details of Department and Allied Departments

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

Sr.No	Name of the Faculty	PAN No.	Highest degree	University	Area of Specialization	Date of Joining in this Institution	Experience in years in current institute	Designation at Time Joining in this Institution	Present Designation	The date on which Designated as Professor/ Associate Professor if any	Nature of Association (Regular/ Contract/ Ad hoc)	Currently Associated (Y/N)
1	Dr.S.Thanga kasirajan	XXXXXXXX08G	Ph.D	Anna University	Manufacturing Engineering	12/12/2011	13.11	Assistant Professor	Associate Professor	21/06/2023	Regular	Yes
2	Dr.S.Senthil	XXXXXXXX78D	Ph.D	National Institute of Technology, Calicut	Industrial Engineering	27/08/2001	24.3	Lecturer	Professor	01/04/2019	Regular	Yes
3	Dr.P.Narayanasamy	XXXXXXXX62Q	Ph.D	Anna University	Manufacturing Engineering	27/01/2014	11.10	Assistant Professor	Associate Professor	11/04/2022	Regular	Yes
4	Dr.M.Prithiviraj	XXXXXXXX11F	Ph.D	Anna University	CAD/CAM	04/01/2016	9.10	Assistant Professor	Assistant Professor		Regular	Yes
5	Dr.B.Balavairavan	XXXXXXXX99P	Ph.D	Anna University	Engineering Design	21/07/2014	11.4	Assistant Professor	Assistant Professor		Regular	Yes
6	Dr.K.Murugananthan	XXXXXXXX11A	Ph.D	Anna University	Engineering Design	12/11/2015	10	Assistant Professor	Assistant Professor		Regular	Yes
7	Dr.P.Senthamaraikannan	XXXXXXXX93K	Ph.D	Anna University	Engineering Design	22/06/2015	8.6	Assistant Professor	Assistant Professor		Regular	No
8	Mr.D.Palani Kumar	XXXXXXXX00J	M.E.	Anna University	CAD/CAM	02/06/2008	17.5	Assistant Professor	Assistant Professor		Regular	Yes
9	Dr.B.K.Parthiban	XXXXXXXX68H	Ph.D	Anna University	Engineering Design	11/05/2012	13.6	Assistant Professor	Assistant Professor		Regular	Yes
10	Dr.N.R.Madhan	XXXXXXXX69M	Ph.D	Anna University	CAD/CAM	02/07/2012	13.4	Assistant Professor	Assistant Professor		Regular	Yes
11	Mr.A.Sankara narayanamurthy	XXXXXXXX26N	M.E.	Anna University	Energy Engineering	01/06/2016	9.5	Assistant Professor	Assistant Professor		Regular	Yes
12	Dr.R.Sakthivel Murugan	XXXXXXXX63E	Ph.D	National Institute of Technology, Trichy	CAD/CAM	29/06/2011	14.5	Assistant Professor	Assistant Professor		Regular	Yes

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

Sr.No	Name of the Faculty	PAN No.	APAAR faculty ID*(if any)	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)
1	Dr.K.Kannan	XXXXXXXX90R	XXXXXXXXXX508	Ph.D	Manonmaniam Sundaranar University	Industrial Engineering	01/07/2000	25.5	Assistant Professor	Professor	30/09/2021	Regular
2	Dr.S.Rajeshbabu	XXXXXXXX90A	XXXXXXXXXX426	Ph.D	Anna University	Electrical Engineering	26/06/2008	17.5	Assistant Professor	Assistant Professor		Regular
3	Dr.P.Balasundar	XXXXXXXX12E	XXXXXXXXXX582	Ph.D	Anna University	Manufacturing Engineering	03/06/2019	6.5	Assistant Professor	Assistant Professor		Regular
4	Mr.A.Arulkumar	XXXXXXXX63H	XXXXXXXXXX132	Ph.D	Anna University	Power Electronics &Drives	03/12/2014	10.11	Assistant Professor	Assistant Professor		Regular
5	Mr.A.Ganesan	XXXXXXXX78B	XXXXXXXXXX464	M.E.	Anna University	Thermal Engineering	01/06/2017	8.5	Assistant Professor	Assistant Professor		Regular
6	Dr.M.Sudalaimani	XXXXXXXX68E	XXXXXXXXXX788	Ph.D	Anna University	Control Systems Engineering	26/04/2010	15.7	Assistant Professor	Associate Professor	01/04/2022	Regular

C2. Student-Faculty Ratio (SFR)

No. of UG(Engineering) programs in Department including allied departments/ clusters (UGn):

UG1=1st UG program

UGn=nth UG program

B= No. of Students in UG 2nd year (ST)

C= No. of Students in UG 3rd year (ST)

D= No. of Students in UG 4th year (ST)

No. of PG (Engineering) programs in Department including allied departments/ clusters (PGm):

PG1=1st PG program.

PGm=mth PG program

A= No. of Students in PG 1st year

B= No. of Students in PG 2nd year

Student Faculty Ratio (SFR) = S/F

S= No. of students of all programs in the Department including all students of allied departments/clusters.

No. of students (ST)=Sanctioned Intake (SA)+ Actual admitted students via lateral entry including leftover seats (L) if any (limited to 10 % of SA)

Students who admitted under supernumerary quotas (SNQ, EWS, etc) will not be considered in calculating SFR value. Those students are exempted.

F=Total no. of regular or contractual faculty members (Full Time) in the Department, including allied departments/clusters (excluding first year faculty (The faculty members who have a 100% teaching load in the first-year courses)).

No. of UG Programs in the Department1 No. of PG Programs in the Department0

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

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.B	33	33	65
UG1.C	33	65	66
UG1.D	65	66	132
UG1: Mechanical Engineering	131	164	263
UG2.B	31	32	33
UG2.C	32	33	33
UG2.D	33	33	63
UG2: Mechatronics Engineering	96	98	129
DS=Total no. of students in all UG and PG programs in the Department	131	164	263
AS=Total no. of students of all UG and PG programs in allied departments	96	98	129
S=Total no. of students in the Department (DS) and allied departments (AS)	S1= 227	S2= 262	S3= 392
DF=Total no. of faculty members in the Department	11	11	11
AF= Total no. of faculty members in the allied Departments	6	6	6
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	F1= 17	F2= 17	F3= 17
FF=The faculty members in F who have a 100% teaching load in the first-year courses	6	3	2
Student Faculty Ratio (SFR)=S/(F-FF)	SFR1= 20.64	SFR2= 18.71	SFR3= 26.13
Average SFR for 3 years	SFR= 21.83		

C3. Faculty Qualification

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

Table No.C3.1: Faculty qualification.

Year	X	Y	RF	FQ = 2.5 x [(10X + 4Y) / RF]]
2025-26(CAY)	14	3	11.00	34.55
2024-25(CAYm1)	12	5	13.00	26.92
2023-24(CAYm2)	11	6	19.00	17.63

C4. Faculty Cadre Proportion

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

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

Year	Professors		Associate Professors		Assistant Professors	
	Required RF1	Available AF1	Required RF2	Available AF1	Required RF3	Available AF3
2025-26	1.00	2.00	2.00	3.00	7.00	12.00

2024-25	1.00	2.00	2.00	3.00	8.00	12.00
2023-24	2.00	2.00	4.00	3.00	13.00	12.00
Average	RF1=1.33	AF1=2.00	RF2=2.67	AF2=3.00	RF2=9.33	AF2=12.00

C5. Visiting/Adjunct Faculty/Professor of Practice

Table No. C5.1: List of visiting/adjunct faculty/professor of practice and their teaching and practical loads.

(CAYm1)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Er.A.Kesavan	CEO	Quantanics Techserv, Madurai	IoT	50.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Er.Jaffer T	Application Engineer	Inventatec,Chennai	CATIA	50.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Er.A.Kesavan	CEO	Quantanics Techserv, Madurai	Internet of Things	50.00

C6. Academic Research

Table No. C6.1: Faculty publication details.

S.No.	Item	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)
1	No. of peer reviewed journal papers published	20	19	17
2	No. of peer reviewed conference papers published	8	4	1
3	No. of books/book chapters published	3	0	0

C7. Sponsored Research Project

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

(CAYm1)

(CAYm2)

(CAYm3)

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

Note*:

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

C8. Consultancy Work

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

(CAYm1)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr.S.Thangakasi Rajan	R. Sakthivel Murugan	Mechanical Engineering	Force calculation setup for bone breakage	PAMC hospital , Madurai	one month	0.10
						Amount received (Rs.):0.10

(CAYm2)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr.N.R.Madhan	V A.Arjun Tech Institute of Science and Technology, Kerala	Mechanical Engineering	Filament Manufacturing		14.03.2024	0.02
						Amount received (Rs.):0.02

(CAYm3)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr.N.R.Madhan	Mr.M.Perumal, Mechanical Engineering, Govt. College Salem	Mechanical Engineering	Filament Manufacturing	-	17.3.2023	0.03
Dr.N.R.Madhan	Mr.Lovin K.John Tech Institute of Science and Technology, Kerala	Mechanical Engineering	Filament Manufacturing	-	3.5.2023	0.03
						Amount received (Rs.):0.06

Total amount (Lacs) received for the past 3 years: 0.18

Note*:

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

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

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

(CAYm1)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Dr.S.Thanga kasi Rajan Dr.R.Sakthivel Murugan	A novel way of developing the electric cycle with a thread mill	1 Year	5.00	3.00	-
			Amount received (Rs.): 5.00		

(CAYm2)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Dr.R.Sakthivel Murugan, Dr.NR Madhan	Design and Development of Effective Low Cost Engineering Graphics Teaching Models using 3D Printing.	1 year	0.20	0.20	Utility Patent is published. 202541001295: Published on: 31.01.2025.
Dr.S.Thanga kasi Rajan	Design and Fabrication of Two fold adjustable Solar Panel	1 year	0.30	0.30	A dual-angle adjustable solar panel system designed as an add-on for electric vehicles apture.
			Amount received (Rs.): 0.50		

(CAYm3)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Dr.B.K.Parrthipan & Dr.P.Narayanasamy	An innovative design for smart projector using raspberry pi	1 year	0.03	0.03	A compact, cost-effective projector prototype integrated with a Raspberry Pi
			Amount received (Rs.): 0.03		

Total amount (Lacs) received for the past 3 years : 5.53

PART D: Laboratory Infrastructure in the Department

(Data to be filled in for the Department)

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

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

Sr. No	Name of the Laboratory	Number of students per set up(Batch Size)	Name of the Important Equipment	Weekly utilization status(all the courses for which the lab is utilized)	Technical Manpower Support		
					Name of the Technical staff	Designation	Qualification
1	Manufacturing Technology Lab	3	Centre Lathe – 15 No's	EVEN – 9 Hou	Mr.V.Ganesan	Lab Instructor	I.T.I.,
2	Manufacturing Technology Lab	3	Shaper – 2 No's	EVEN – 9 Hou	Mr.V.Ganesan	Lab Instructor	I.T.I.,
3	Manufacturing Technology Lab	3	Horizontal Milling Machine	EVEN – 9 Hou	Mr.V.Ganesan	Lab Instructor	I.T.I.,

4	Manufacturing Technology Lab	3	Vertical Milling Machine	EVEN – 9 Hou	Mr.V.Ganesan	Lab Instructor	I.T.I.,
5	Manufacturing Technology Lab	3	Turret Lathe	EVEN – 9 Hou	Mr.V.Ganesan	Lab Instructor	I.T.I.,
6	Manufacturing Technology Lab	3	Surface Grinding Machine	EVEN – 9 Hou	Mr.V.Ganesan	Lab Instructor	I.T.I.,
7	Manufacturing Technology Lab	3	Cylindrical Grinding Machine	EVEN – 9 Hou	Mr.V.Ganesan	Lab Instructor	I.T.I.,
8	Manufacturing Technology Lab	3	Lathe Tool Dynamometer	EVEN – 9 Hou	Mr.V.Ganesan	Lab Instructor	I.T.I.,
9	Manufacturing Technology Lab	3	Milling Tool Dynamometer	EVEN – 9 Hou	Mr.V.Ganesan	Lab Instructor	I.T.I.,
10	Manufacturing Technology Lab	3	Gear Hobbing Machine	EVEN – 9 Hou	Mr.V.Ganesan	Lab Instructor	I.T.I.,
11	Manufacturing Technology Lab	3	Tool and Cutter Grinder	EVEN – 9 Hou	Mr.V.Ganesan	Lab Instructor	I.T.I.,
12	Manufacturing Technology Lab	3	Slotter	EVEN – 9 Hou	Mr.V.Ganesan	Lab Instructor	I.T.I.,
13	Fluid Mechanics and Machinery Lab	3	Orifice meter setup	ODD - 3 Hours	Mr.K.Maheswar	Lab Technician	I.T.I.,
14	Fluid Mechanics and Machinery Lab	3	Venturi meter setup	ODD - 3 Hours	Mr.K.Maheswar	Lab Technician	I.T.I.,
15	Fluid Mechanics and Machinery Lab	3	Rotameter setup	ODD - 3 Hours	Mr.K.Maheswar	Lab Technician	I.T.I.,
16	Fluid Mechanics and Machinery Lab	3	Flow through pipes	ODD - 3 Hours	Mr.K.Maheswar	Lab Technician	I.T.I.,
17	Fluid Mechanics and Machinery Lab	3	Centrifugal pump	ODD - 3 Hours	Mr.K.Maheswar	Lab Technician	I.T.I.,
18	Fluid Mechanics and Machinery Lab	3	Reciprocating pump setup	ODD - 3 Hours	Mr.K.Maheswar	Lab Technician	I.T.I.,
19	Fluid Mechanics and Machinery Lab	3	Gear pump setup	ODD - 3 Hours	Mr.K.Maheswar	Lab Technician	I.T.I.,
20	Fluid Mechanics and Machinery Lab	3	Pelton wheel setup	ODD - 3 Hours	Mr.K.Maheswar	Lab Technician	I.T.I.,
21	Fluid Mechanics and Machinery Lab	3	Francis turbine setup	ODD - 3 Hours	Mr.K.Maheswar	Lab Technician	I.T.I.,
22	Thermal Laboratory	3	4 cylinder 4 stroke petrol Engine with Hydraulic Dynamometer.	EVEN - 4 Hour	Mr.K.Maheswar	Lab Technician	I.T.I.,
23	Thermal Laboratory	3	4 cylinder 4 strokes Diesel Engine with AC alternator loaded to resistance	EVEN - 4 Hour	Mr.K.Maheswar	Lab Technician	I.T.I.,
24	Thermal Laboratory	3	Single cylinder 4 strokes Diesel Engine with Rope Brake Dynamometer	EVEN - 4 Hour	Mr.K.Maheswar	Lab Technician	I.T.I.,
25	Thermal Laboratory	3	Single cylinder 2 stroke Petrol Engine with Belt Brake Dynamometer	EVEN - 4 Hour	Mr.K.Maheswar	Lab Technician	I.T.I.,
26	Thermal Laboratory	3	4 cylinder 4 stroke petrol Engine with Hydraulic Dynamometer	EVEN - 4 Hour	Mr.K.Maheswar	Lab Technician	I.T.I.,
27	Thermal Laboratory	3	4 cylinder 4 strokes Diesel Engine with AC alternator loaded to resistance	EVEN - 4 Hour	Mr.K.Maheswar	Lab Technician	I.T.I.,
28	Thermal Laboratory	3	Steam boiler and Steam turbine	EVEN - 4 Hour	Mr.K.Maheswar	Lab Technician	I.T.I.,
29	Thermal Laboratory	3	Cleveland Flash and Fire Point apparatus	EVEN - 4 Hour	Mr.K.Maheswar	Lab Technician	I.T.I.,
30	Thermal Laboratory	3	2 stroke cut section model (Petrol Engine)	EVEN - 4 Hour	Mr.K.Maheswar	Lab Technician	I.T.I.,

31	Thermal Laboratory	3	4 stroke cut section model (Petrol Engine)	EVEN - 4 Hour	Mr.K.Maheswar:	Lab Technician	I.T.I.,
32	Thermal Laboratory	3	4 stroke cut section model (Diesel Engine)	EVEN - 4 Hour	Mr.K.Maheswar:	Lab Technician	I.T.I.,
33	Thermal Laboratory	3	4 cylinder four stroke petrol Engine with Hydraulic Dynamometer	EVEN - 4 Hour	Mr.K.Maheswar:	Lab Technician	I.T.I.,
34	Thermal Laboratory	3	4 cylinder 4 strokes Diesel Engine with AC alternator loaded to resistance	EVEN - 4 Hour	Mr.K.Maheswar:	Lab Technician	I.T.I.,
35	Thermal Laboratory	3	Guarded plate apparatus	EVEN - 4 Hour	Mr.K.Maheswar:	Lab Technician	I.T.I.,
36	Thermal Laboratory	3	Lagged pipe apparatus	EVEN - 4 Hour	Mr.K.Maheswar:	Lab Technician	I.T.I.,
37	Thermal Laboratory	3	Natural convection-vertical cylinder apparatus	EVEN - 4 Hour	Mr.K.Maheswar:	Lab Technician	I.T.I.,
38	Thermal Laboratory	3	Forced convection inside tube apparatus	EVEN - 4 Hour	Mr.K.Maheswar:	Lab Technician	I.T.I.,
39	Thermal Laboratory	3	Pin-Fin apparatus	EVEN - 4 Hour	Mr.K.Maheswar:	Lab Technician	I.T.I.,
40	Thermal Laboratory	3	Stefan-Boltzmann apparatus	EVEN - 4 Hour	Mr.K.Maheswar:	Lab Technician	I.T.I.,
41	Thermal Laboratory	3	Emissivity measurement apparatus	EVEN - 4 Hour	Mr.K.Maheswar:	Lab Technician	I.T.I.,
42	Thermal Laboratory	3	Parallel/Counter flow heat exchanger apparatus	EVEN - 4 Hour	Mr.K.Maheswar:	Lab Technician	I.T.I.,
43	Thermal Laboratory	3	Single/Two stage reciprocating air compressor	EVEN - 4 Hour	Mr.K.Maheswar:	Lab Technician	I.T.I.,
44	Thermal Laboratory	3	Refrigeration test rig	EVEN - 4 Hour	Mr.K.Maheswar:	Lab Technician	I.T.I.,
45	Thermal Laboratory	3	Air-conditioning test rig	EVEN - 4 Hour	Mr.K.Maheswar:	Lab Technician	I.T.I.,
46	Dynamics Laboratory	3	Cam follower setup	ODD - 9 Hours	Mr.P. Karthik	Lab Instructor	I.T.I.,
47	Dynamics Laboratory	3	Motorised gyroscope	ODD - 9 Hours	Mr.P. Karthik	Lab Instructor	I.T.I.,
48	Dynamics Laboratory	3	Whirling of shaft apparatus	ODD - 9 Hours	Mr.P. Karthik	Lab Instructor	I.T.I.,
49	Dynamics Laboratory	3	Dynamic balancing machine	ODD - 9 Hours	Mr.P. Karthik	Lab Instructor	I.T.I.,
50	Dynamics Laboratory	3	Static and dynamic balancing machine	ODD - 9 Hours	Mr.P. Karthik	Lab Instructor	I.T.I.,
51	Dynamics Laboratory	3	Vibration test facility apparatus	ODD - 9 Hours	Mr.P. Karthik	Lab Instructor	I.T.I.,
52	Dynamics Laboratory	3	Gear Models	ODD - 9 Hours	Mr.P. Karthik	Lab Instructor	I.T.I.,
53	Dynamics Laboratory	3	Kinematic Models & mechanisms	ODD - 9 Hours	Mr.P. Karthik	Lab Instructor	I.T.I.,
54	Dynamics Laboratory	3	Transverse Vibrations	ODD - 9 Hours	Mr.P. Karthik	Lab Instructor	I.T.I.,
55	Dynamics Laboratory	3	Turn Table Apparatus	ODD - 9 Hours	Mr.P. Karthik	Lab Instructor	I.T.I.,
56	Metrology and Measurements Laboratory	3	Vernier Height Gauge	ODD - 6 Hours	Mr.P. Karthik	Lab Instructor	I.T.I.,
57	Metrology and Measurements Laboratory	3	Vernier Depth Gauge	ODD - 6 Hours	Mr.P. Karthik	Lab Instructor	I.T.I.,

58	Metrology and Measurements Laboratory	3	Slip Gauge Set	ODD - 6 Hours	Mr.P. Karthik	Lab Instructor	I.T.I.,
59	Metrology and Measurements Laboratory	3	Gear Tooth Vernier	ODD - 6 Hours	Mr.P. Karthik	Lab Instructor	I.T.I.,
60	Metrology and Measurements Laboratory	3	Sine Bar	ODD - 6 Hours	Mr.P. Karthik	Lab Instructor	I.T.I.,
61	Metrology and Measurements Laboratory	3	Floating Carriage Micrometre	ODD - 6 Hours	Mr.P. Karthik	Lab Instructor	I.T.I.,
62	Metrology and Measurements Laboratory	3	Profile Projector / Tool Makers Microscope	ODD - 6 Hours	Mr.P. Karthik	Lab Instructor	I.T.I.,
63	Metrology and Measurements Laboratory	3	Mechanical/Electrical/ Pneumatic Comparator	ODD - 6 Hours	Mr.P. Karthik	Lab Instructor	I.T.I.,
64	Metrology and Measurements Laboratory	3	Autocollimator	ODD - 6 Hours	Mr.P. Karthik	Lab Instructor	I.T.I.,
65	Metrology and Measurements Laboratory	3	Temperature Measuring Setup	ODD - 6 Hours	Mr.P. Karthik	Lab Instructor	I.T.I.,
66	Metrology and Measurements Laboratory	3	Force Measuring Setup	ODD - 6 Hours	Mr.P. Karthik	Lab Instructor	I.T.I.,
67	Metrology and Measurements Laboratory	3	Torque Measuring Setup	ODD - 6 Hours	Mr.P. Karthik	Lab Instructor	I.T.I.,
68	Metrology and Measurements Laboratory	3	Micrometer	ODD - 6 Hours	Mr.P. Karthik	Lab Instructor	I.T.I.,
69	Metrology and Measurements Laboratory	3	Vernier Caliper	ODD - 6 Hours	Mr.P. Karthik	Lab Instructor	I.T.I.,
70	Metrology and Measurements Laboratory	3	Bore Gauge	ODD - 6 Hours	Mr.P. Karthik	Lab Instructor	I.T.I.,
71	Metrology and Measurements Laboratory	3	CMM	ODD - 6 Hours	Mr.P. Karthik	Lab Instructor	I.T.I.,
72	Metrology and Measurements Laboratory	3	Surface finish measurement	ODD - 6 Hours	Mr.P. Karthik	Lab Instructor	I.T.I.,
73	Metrology and Measurements Laboratory	3	Vibration Measurement	ODD - 6 Hours	Mr.P. Karthik	Lab Instructor	I.T.I.,
74	Metrology and Measurements Laboratory	3	Speed Measurement	ODD - 6 Hours	Mr.P. Karthik	Lab Instructor	I.T.I.,
75	CAD Laboratory	1	Computer (Common Server)	ODD - 16 Hour	Mr.G.Kanagavel	Lab Technician	D.M.E.
76	CAD Laboratory	1	i) Dell Systems with 1. Intel (R) Core (TM) i3 Processor (3.30 Ghz,3 MB) 2. 4 GB RAM 3. 500 GB SATA Hard disk	ODD - 16 Hour	Mr.G.Kanagavel	Lab Technician	D.M.E.
77	CAD Laboratory	1	WORKSTATION ML10V2 XEON PROCESSOR 3.5 GHz 16 GB DDR3 500 GB 4 TB SATA USB AMP Firewire	ODD - 16 Hour	Mr.G.Kanagavel	Lab Technician	D.M.E.
78	CAD Laboratory	1	EPSON 360L Colour Jet Printer	ODD - 16 Hour	Mr.G.Kanagavel	Lab Technician	D.M.E.
79	CAD Laboratory	1	HP Laser Jet pro M202TW (Network Printer)	ODD - 16 Hour	Mr.G.Kanagavel	Lab Technician	D.M.E.
80	CAD Laboratory	1	10 KVA/240 VDC UPS 12 V 40 Amp Battery (15 Nos.)	ODD - 16 Hour	Mr.G.Kanagavel	Lab Technician	D.M.E.
81	CAD Laboratory	1	Sony LCD Projector (1 No)	ODD - 16 Hour	Mr.G.Kanagavel	Lab Technician	D.M.E.
82	CAD Laboratory	1	SOLIDWORKS 2013 (30 Nos.)	ODD - 16 Hour	Mr.G.Kanagavel	Lab Technician	D.M.E.
83	CAD Laboratory	1	MASTERCAM (15 Nos.)	ODD - 16 Hour	Mr.G.Kanagavel	Lab Technician	D.M.E.
84	CAD Laboratory	1	AutoDesk (120 Nos.)	ODD - 16 Hour	Mr.G.Kanagavel	Lab Technician	D.M.E.

85	CAD Laboratory	1	Femap NASTRAN (30 Nos.)	ODD - 16 Hour	Mr.G.Kanagavel	Lab Technician	D.M.E.
86	CAD Laboratory	1	NX CAD (1 No)	ODD - 16 Hour	Mr.G.Kanagavel	Lab Technician	D.M.E.
87	CNC Lab	3	Computer Numerical Control slant bed Lathe model XL TURN (1 No.)	EVEN - 16 Hour	Mr.G.Kanagavel	Lab Technician	D.M.E.
88	CNC Lab	3	Computer Numerical Control Milling Machine model XL MILL (1 No.)	EVEN - 16 Hour	Mr.G.Kanagavel	Lab Technician	D.M.E.
89	CNC Lab	3	Image Processing kit (1 NO.)	EVEN - 16 Hour	Mr.G.Kanagavel	Lab Technician	D.M.E.
90	3D Printing Laboratory	3	Filament Extruder for 3D Printer	ODD - 6 Hours	Mr.G.Kanagavel	Lab Technician	D.M.E.
91	3D Printing Laboratory	3	3D Printer Fabforge 300 x 300 x 375 mm3 Dual Nozzle	ODD - 6 Hours	Mr.G.Kanagavel	Lab Technician	D.M.E.
92	3D Printing Laboratory	3	3D scanner	ODD - 6 Hours	Mr.G.Kanagavel	Lab Technician	D.M.E.
93	3D Printing Laboratory	3	3D Printer Ender 3 Pro 200 x 200 x 275 mm3 Magnetic bed	ODD - 6 Hours	Mr.G.Kanagavel	Lab Technician	D.M.E.
94	3D Printing Laboratory	3	Simplify3d	ODD - 6 Hours	Mr.G.Kanagavel	Lab Technician	D.M.E.
95	Engineering Practices Laboratory	1	Arc welding – 5 Nos.	EVEN - 24 Hour	Mr.V. Ganesan	Lab Instructor	I.T.I.,
96	Engineering Practices Laboratory	1	Gas welding	EVEN - 24 Hour	Mr.V. Ganesan	Lab Instructor	I.T.I.,
97	Engineering Practices Laboratory	1	Furnace – 2 Nos	EVEN - 24 Hour	Mr.V. Ganesan	Lab Instructor	I.T.I.,
98	Engineering Practices Laboratory	1	Circular saw	EVEN - 24 Hour	Mr.V. Ganesan	Lab Instructor	I.T.I.,
99	Engineering Practices Laboratory	1	Power tools Jig saw, - 2 Nos Angle grinder, - 2 Nos Rotary hammer, - 2 Nos Sandblasting Hammer - 2 Nos Circular	EVEN - 24 Hour	Mr.V. Ganesan	Lab Instructor	I.T.I.,
100	Engineering Practices Laboratory	1	Hand drilling machine – 2 Nos	EVEN - 24 Hour	Mr.V. Ganesan	Lab Instructor	I.T.I.,
101	Engineering Practices Laboratory	1	Radial drilling machine	EVEN - 24 Hour	Mr.V. Ganesan	Lab Instructor	I.T.I.,
102	Engineering Practices Laboratory	1	Pillar drilling machine	EVEN - 24 Hour	Mr.V. Ganesan	Lab Instructor	I.T.I.,
103	Engineering Practices Laboratory	1	Shearing Machine	EVEN - 24 Hour	Mr.V. Ganesan	Lab Instructor	I.T.I.,
104	Engineering Practices Laboratory	1	Bench vice – 15 Nos	EVEN - 24 Hour	Mr.V. Ganesan	Lab Instructor	I.T.I.,
105	Engineering Practices Laboratory	1	Carpentry vice – 15 Nos	EVEN - 24 Hour	Mr.V. Ganesan	Lab Instructor	I.T.I.,
106	Engineering Practices Laboratory	1	Plumbing vice – 2 Nos	EVEN - 24 Hour	Mr.V. Ganesan	Lab Instructor	I.T.I.,
107	Mechatronics Laboratory	3	PLC (Siemens, Allen Bradley, Delta, Millennium)	ODD - 3 Hours	Mr.L.S.Murugan	Lab Instructor	I.T.I.,
108	Mechatronics Laboratory	3	Multi process Station	ODD - 3 Hours	Mr.L.S.Murugan	Lab Instructor	I.T.I.,
109	Mechatronics Laboratory	3	Stepper Motor, DC motor control using PLC	ODD - 3 Hours	Mr.L.S.Murugan	Lab Instructor	I.T.I.,
110	Mechatronics Laboratory	3	Digital Controller (I to V converter, V to I converter, ADC/DAC)	ODD - 3 Hours	Mr.L.S.Murugan	Lab Instructor	I.T.I.,
111	Mechatronics Laboratory	3	Variable Frequency Drive	ODD - 3 Hours	Mr.L.S.Murugan	Lab Instructor	I.T.I.,

112	Mechatronics Laboratory	3	Intel core i3, 2GB RAM, 500GB HDD, (No of Computer: 12)	ODD - 3 Hours	Mr.L.S.Murugan	Lab Instructor	I.T.I.,
113	Mechatronics Laboratory	3	List of Available Softwares: SIMANTIC STEP 7 V 15.1 Siemens LOGO SOFT V 3.0 Delta ICD S-4 V12.07 WPL S-4	ODD - 3 Hours	Mr.L.S.Murugan	Lab Instructor	I.T.I.,

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Manufacturing Technology Laboratory	The planning machine is provided with a safety fence around it to avoid accidents.
2	Fluid Mechanics Lab	1. Students are instructed to switch on the pump before open the outlet valve. 2. Students are instructed to release the load of the turbine and open the outlet valve before switch on the turbine.
3	Thermal Laboratory	1. Fuel of the engines is placed in separate cupboard away from the reach of the students. 2. Foundation for all the engines is provided to avoid any danger of vibration. 3. Students are not allowed to go nearer to boiler, engines, etc., while it is in running condition.
4	Dynamics Laboratory	1. Students are allowed to handle the equipment's carefully only after the prior permission of the lab instructors. 2. Some equipment's such as gyroscope, governor, spring mass system are carefully handled by the students.
5	Metrology and Measurements Laboratory	Since all the equipment is very sensitive, students are allowed to handle it very carefully.
6	CAD Laboratory	Students are required to remove their footwear outside the centre. 2. Students are asked to register their Name, Roll No.& System No. in the Log register before logging into the system. 3. Students should leave their belongings outside the lab except their Lab Manuals and Lab File. 4. Students are requested not to place their legs on the wall or on the table. 5. Students should refrain from leaning on the table and sitting on it. 6. Before logging in to a particular terminal, if there is something wrong in the terminal, the student should report the same immediately to the concerned staff. 7. Students should not use any disks brought from outside without prior permission from the concerned staff. 8. Students should not move from their terminal and ask any clarification from their friends/neighbour without any proper permission from the concerned staff. 9. Students should collect their printouts before leaving the lab for that particular session. 10. Before leaving the Terminal, the students should logout properly and arrange their chairs in position. 11. Students are not allowed to use Pen drive in any of the systems in the lab. 12. Students are not allowed to take any manual outside the centre. 13. Edibles are strictly prohibited in inside lab. 14. Mobile Phones usage are strictly prohibited inside the CAD Lab. In case of any violence, the mobile phone will be seized or broken. 15. No internet browsing is allowed during the lab hours.
7	CNC Laboratory	1. It has safety external cover over it. 2. Both CNC lathe and milling machines are provided with emergency stop buttons. 3. Students are allowed to operate the machines only after performing the simulation in the computer of the machines. 4. When a student unknowingly opens the safety cover while running, the machine stops immediately.
8	3D Printing Laboratory	1. It has safety external cover over the 3D printer. 2. 3D printer is provided with emergency stop buttons. Students are allowed to operate the machines only after performing the simulation using 3Dsimply or Cura in the computer of the machines.
9	Engineering Practices Laboratory	Students are allowed to do welding only by wearing hand gloves, safety goggles and welding shields. 2. Students are allowed to handle the sheet metal work only by wearing gloves. 3. Girls must come by putting hair knot to avoid any accidents. 4. Students are not allowed to handle any equipment or machines which are hot. 5. Students are allowed to use equipment only for its designated purpose. 6. All the students must wash their hands before leaving the workshop.
10	Centre for Prototyping	Students are allowed to do welding only by wearing hand gloves, safety goggles and welding shields. 2. Students are allowed to handle the sheet metal work only by wearing gloves. 3. Girls must come by putting hair knot to avoid any accidents. 4. Students are not allowed to handle any equipment or machines which are hot. 5. Students are allowed to use equipment only for its designated purpose. 6. All the students must wash their hands before leaving the workshop.

11	Mechatronics Laboratory	Students are required to remove their footwear outside the centre. 2. Students are asked to register their Name, Roll No.& System No. in the Log register before logging into the system. 3. Students should leave their belongings outside the lab except their Lab Manuals and Lab File. 4. Students are requested not to place their legs on the wall or on the table. 5. Students should refrain from leaning on the table and sitting on it. 6. Before logging in to a particular terminal, if there is something wrong in the terminal, the student should report the same immediately to the concerned staff. 7. Students should not use any disks brought from outside without prior permission from the concerned staff. 8. Students should not move from their terminal and ask any clarification from their friends/neighbour without any proper permission from the concerned staff. 9. Students should collect their printouts before leaving the lab for that particular session. 10. Before leaving the Terminal, the students should logout properly and arrange their chairs in position. 11. Students are not allowed to use Pen drive in any of the systems in the lab. 12. Students are not allowed to take any manual outside the centre. 13. Edibles are strictly prohibited in inside lab. 14. Mobile Phones usage are strictly prohibited inside the CAD Lab. In case of any violence, the mobile phone will be seized or broken. 15. No internet browsing is allowed during the lab hours.
12	General safety measures	Safety measures that are to be followed by the students 1. All the students must wear shoes to avoid danger of any tools falling on to their legs. 2. All the students must wear their lab coats while entering the laboratory. 3. Students are not permitted to start the machine without the prior permission of the lab Instructor. General safety measures & precautions in all laboratories 1. All the labs are well ventilated and all the machines are installed with a sufficient space on all the four sides without any interference or any accidents. 2. Machines are installed away from the walking area according to the safety norms and there is sufficient space for entry and exit of students. The yellow lines on both sides of the lab indicate the walking area. 3. All the labs are provided with sufficient lights and fans for good ergonomics & aesthetics and proper air circulation. 4. All the wiring and electrical lines are self-contained inside the buildings and it is away from the reach of the students. The electrical wiring for all the machines is coming through trenches under the floor of the working area in proper pathways. 5. All the labs are provided with first aid safety kit. 6. Fire extinguisher is available in each lab and it is properly maintained and refilled at sufficient intervals, before the expiry date. Sand filled buckets are also available in lab for fire hazards. All the labs are well cleaned and the floor is free from oil spills and other fire hazard materials. 7. Each lab is provided with cable chamber for the distribution of power supply throughout the lab. When the particular cable chamber knob is turned off, then all the machines connected to it will be shut down immediately. 8. The cable chamber lines are then connected to separate control circuits. These control circuits have various trip switches for separate machines and also an overall control trip switch which is used to shut down all the machines connected to the control circuit.

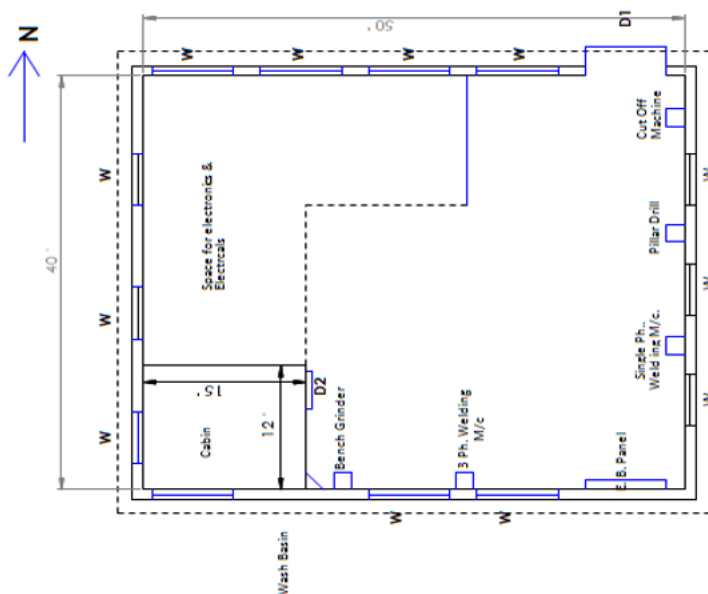
D3. Project Laboratory/Research Laboratory

List of Laboratory

Name of the lab	Utilization
Centre for Prototyping (Shared)	All the I, II, III & IV year students are create their project models
Project Display room	Every year best project was displayed for referring subsequent year students

Centre for Prototyping

Our college established the centre for prototype to develop the working models of the student's project. These facilities will help the students to enhance their creative ideas into working project models.



List of Equipment

1. 2-ton Chain block with post
2. Hand grinding machine
3. 0.5" Hand drilling machine
4. 14" Cut-off machine
5. Steel work table with 5" Bench vice & 3" Pipe vice
6. 24" X 24" Surface plate
7. 12" Height gauge
8. Combination try square
9. Vernier bevel protractor
10. Gas cutting machine
11. 5KVA oil cooled single phase welding machine
12. 250amps Inverter model DC welding machine
13. 1HP 3phase bench grinder
14. 1.25" Drilling machine with 1HP 3phase motor
15. Hand shearing machine 10"
16. Sheet bending machine
17. PoP riveting machine

Project display room

Dedicated project room was allotted in Academic 'E' block "Fourth Floor" E21 Hall. Every year best project was displayed for referring subsequent year students.

Photo



Project Display room

PART E: First Year faculty and financial Resources

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

E1. First Year Student-Faculty Ratio (FYSFR)

Table No. E1.1: FYSFR details.

Year	Sanctioned intake of all UG programs (S4)	No. of required faculty (RF4= S4/20)	No. of faculty members in Basic Science Courses & Humanities and Social Sciences including Management courses (NS1)	No. of faculty members in Engineering Science Courses (NS2)	Percentage= No. of faculty members $((NS1*0.8) + (NS2*0.2)) / (\text{No. of required faculty (RF4)})$; Percentage= $((NS1*0.8) + (NS2*0.2)) / RF$
2023-24(CAYm2)	660	33	26	12	70
2024-25(CAYm1)	720	36	27	13	67
2025-26(CAY)	720	36	27	12	67

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

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

Items	Budgeted in 2025-26	Actual Expenses in 2025-26 till	Budgeted in 2024-25	Actual Expenses in 2024-25 till	Budgeted in 2023-24	Actual Expenses in 2023-24 till	Budgeted in 2022-23	Actual Expenses in 2022-23 till
Infrastructure Built-Up	23426000	16530425	17060000	13880468	12825000	10253590	8300000	8247809
Library	430000	110182	580000	274424	450000	463553	325000	165987
Laboratory equipment	19822000	11971004	18297000	22135562	14365000	5753703	5263000	3583877
Teaching and non-teaching staff salary	172330000	99617568	126089000	132455285	116000000	114738143	119580000	117551275
Outreach Programs	7700000	5387291	9628000	9554745	4000000	3939209	3100000	3198596
R&D	600000	448347	5600000	1073557	2000000	1358483	1000000	451052
Training, Placement and Industry linkage	11640000	6276467	11733000	9872295	9346000	5786240	8858000	8516392
SDGs	4050000	1742327	3750000	3645374	1250000	1256004	1260000	1029448

Entrepreneurship	100000	780	200000	187387	500000	164030	150000	140488
Others, specify	64455000	29399216	48711480	52546223	39106000	41070536	40850000	32569912
Total	304553000	171483607	241648480	245625320	199842000	184783491	188686000	175454836

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 2025-26	Actual Expenses in 2025-26 till	Budgeted in 2024-25	Actual Expenses in 2024-25 till	Budgeted in 2023-24	Actual Expenses in 2023-24 till	Budgeted in 2022-23	Actual Expenses in 2022-23 till
Laboratory equipment	1000000	298057	550000	948767	877000	702067	230000	183495
Software	10000	5300	20000	10114	9000	6939	16000	12692
SDGs	200000	95732	0	0	0	0	0	0
Support for faculty development	100000	29273	16000	32436	28000	22536	10000	7599
R & D	500000	172690	100000	76683	180000	145552	80000	62908
Industrial Training, Industry expert,	1000000	344861	1000000	705164	775000	619954	1525000	1218896
Miscellaneous Expenses*	15000000	7076630	15880000	13532405	20645000	16916295	26560000	21247493
Total	17810000	8022543	17566000	15305569	22514000	18413343	28421000	22733083