

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 : 11983	Date of Submission : 30-06-2026

PART A- Profile of the Institute

A1.Name of the Institute : DR.AMBEDKAR INSTITUTE OF TECHNOLOGY	
Year of Establishment : 1980	Location of the Institute: Bengaluru
A2. Institute Address : OUTER RING ROAD, NEAR JNANA BHARATHI CAMPUS, MALLATHAHALLI	
City: BANGALORE	State: Karnataka
Pin Code: 560056	Website: www.drait.edu.in
Email: PRINCIPAL@DR-AIT.ORG	Phone No (with STD Code): 080-23211506
A3. Name and Address of the Affiliating University (if any) :	
Name of the University : NIL	City: Belgaum
State : Karnataka	Pin Code: 590018
A4. Type of the Institution : Government Aided Institute	
A5. Ownership Status : Government Aided	

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

- No. of UG programs: 14
- No. of PG programs: 8

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	Computer Application	PG	Master of Computer Application	1999	--	Computer Application

2	Engineering & Technology	UG	Aeronautical Engineering	2020	--	Aeronautical Engineering
3	Engineering & Technology	UG	Artificial Intelligence and Machine Learning	2022	--	Artificial Intelligence and Machine Learning
4	Engineering & Technology	UG	Civil Engineering	1980	--	Civil Engineering
5	Engineering & Technology	PG	Computer Science & Engineering	2002	--	Computer Science and Engineering
6	Engineering & Technology	UG	Computer Science and Business Systems	2022	--	Computer Science and Business System
7	Engineering & Technology	UG	Computer Science and Engineering	1987	--	Computer Science and Engineering
8	Engineering & Technology	UG	Computer Science and Engineering (Data Science)	2025	--	Computer Science and Engineering (Data Science)
9	Engineering & Technology	UG	Electrical and Electronics Engineering	1980	--	Electrical and Electronics Engineering
10	Engineering & Technology	UG	Electronics & Communication Engineering	1982	--	Electronics and Communication Engineering
11	Engineering & Technology	UG	Electronics & Instrumentation Engineering	1985	--	Electronics and Instrumentation Engineering
12	Engineering & Technology	UG	Electronics and Communication Engineering (VLSI Design & Technology)	2025	--	Electronics and Communication Engineering
13	Engineering & Technology	UG	Electronics and Telecommunication Engineering	1990	--	Electronics and Telecommunication Engineering
14	Engineering & Technology	UG	Industrial Engineering & Management	1984	--	Industrial Engineering and Management

15	Engineering & Technology	UG	Information Science & Engineering	1992	--	Information Science and Engineering
16	Engineering & Technology	PG	Machine Design	2013	2025	Mechanical Engineering
17	Engineering & Technology	UG	Mechanical Engineering	1980	--	Mechanical Engineering
18	Engineering & Technology	PG	Power Electronics	2010	--	Electrical and Electronics Engineering
19	Engineering & Technology	PG	Robotics and Artificial Intelligence	2025	--	Mechanical Engineering
20	Engineering & Technology	PG	Structural Engineering	2011	--	Civil Engineering
21	Engineering & Technology	PG	VLSI Design and Embedded System	2004	--	Electronics and Communication Engineering
22	Management	PG	Master of Business Administration	2001	--	Management

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
Civil Engineering	No	Civil Engineering	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
Industrial Engineering and Management	Industrial Engineering & Management	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	ACCF STAT
1	Mechanical Engineering	UG	1980 / --	40	Yes	2021	120	2021	F.No.South-West/1-9321932120/2021/EOA	Grant accre years perioc perioc

Sanctioned Intake for Last Five Years for the Machine Design

Academic Year	Sanctioned Intake
2025-26	120
2024-25	120
2023-24	120
2022-23	120
2021-22	120
2020-21	180

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/COM AUTHORITY APPROVAL C
1	Industrial Engineering and Management	Industrial Engineering & Management	UG	1984 / --	40	Yes	2021	30	2021	F.No.South-V 9321932120.

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/COM AUTHORITY ARROVAL C														
Sanctioned Intake for Last Five Years for the Industrial Engineering & Management <table><thead><tr><th>Academic Year</th><th>Sanctioned Intake</th></tr></thead><tbody><tr><td>2025-26</td><td>30</td></tr><tr><td>2024-25</td><td>30</td></tr><tr><td>2023-24</td><td>30</td></tr><tr><td>2022-23</td><td>30</td></tr><tr><td>2021-22</td><td>30</td></tr><tr><td>2020-21</td><td>60</td></tr></tbody></table>											Academic Year	Sanctioned Intake	2025-26	30	2024-25	30	2023-24	30	2022-23	30	2021-22	30	2020-21	60
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. SATHISH.S
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)	120	120	120	120	120	180	180

N1=Total no. of students admitted in the 1st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	120	112	102	71	120	109	121
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	20	30	61	32	74	60
N3=Separate division if any	3	0	0	0	2	1	4
N4=Total no. of students admitted in the 1st year via all supernumerary quotas	6	6	5	6	6	9	9
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	129	138	137	138	160	193	194

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

B4. Enrolment Ratio in the First Year

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

Year of entry	N (From Table 4.1)	N1 (From Table 4.1)	N4 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2025-26 (CAY)	120	120	6	105.00
2024-25 (CAYm1)	120	112	6	98.33
2023-24 (CAYm2)	120	102	5	89.17

Average [(ER1 + ER2 + ER3) / 3] = 97.50≡ 20.00

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
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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)).	160.00	198.00	198.00
B=No. of students who graduated from the program in the stipulated course duration	125.00	175.00	197.00
Success Rate (SR)= (B/A) * 100	78.12	88.38	99.49

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 88.66

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)
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)	6.16	6.09	5.97
Y=Total no. of successful students	103.00	95.00	75.00
Z=Total no. of students appeared in the examination	114.00	100.00	77.00
API [X*(Y/Z)]	5.57	5.79	5.81

Average API[(AP1+AP2+AP3)/3] : 5.72

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 2nd year/10)	6.44	6.02	6.57
Y=Total no. of successful students	137.00	134.00	130.00
Z=Total no. of students appeared in the examination	137.00	138.00	135.00
API [X * (Y/Z)]	6.44	5.85	6.33

Average API [(AP1 + AP2 + AP3)/3] : 6.21

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)
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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)	6.36	6.72	6.92
Y=Total no. of successful students	134.00	125.00	175.00
Z=Total no. of students appeared in the examination	134.00	130.00	175.00
API [$X*(Y/Z)$]:	6.36	6.46	6.92

Average API [(AP1 + AP2 + AP3)/3] : 6.58

B9. Placement, Higher Studies, and Entrepreneurship

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

Item	LYG (2021-22)	LYGm1(2020-21)	LYGm2(2019-20)
FS*=Total no. of final year students	160.00	198.00	198.00
X=No. of students placed	51.00	71.00	122.00
Y=No. of students admitted to higher studies	2.00	17.00	13.00
Z= No. of students taking up entrepreneurship	2.00	3.00	3.00
Placement Index(P) = $((X + Y + Z)/FS) * 100$:	34.38	45.96	69.70

Average Placement Index = $(P_1 + P_2 + P_3)/3$: 50.01 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)
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1	S.K.JAGADEESH	XXXXXXX08G	M.Tech	NIT Calicut	Thermal science	20/02/1992	34.3	Lecturer	Associate Professor	02/01/2006	Regular	No
2	Dr. SATHISH.S	XXXXXXX99J	Ph.D	VTU	CIM	23/04/1999	27.2	Lecturer	Professor	09/05/2015	Regular	Yes
3	Dr. T.N.RAJU	XXXXXXX62D	Ph.D	IIT Madras	Manufacturing science	24/05/1999	27.1	Lecturer	Professor	23/05/2015	Regular	Yes
4	Dr. NATARAJA M M	XXXXXXX40B	Ph.D	VTU	PEST	25/11/2006	19.7	Assistant Professor	Assistant Professor		Regular	Yes
5	Dr. H.M.SOMASHEKAR	XXXXXXX36M	Ph.D	Bangalore university	Manufacturing science	27/11/2006	19.7	Assistant Professor	Associate Professor	27/11/2019	Regular	Yes
6	Dr. DEEPAK C	XXXXXXX52J	Ph.D	VTU	Thermal Engineering	16/04/2025	1	Assistant Professor	Assistant Professor		Regular	No
7	VINODKUMAR H P	XXXXXXX48J	M.Tech	VTU	Industrial Automation and Robotics	17/04/2025	1.2	Assistant Professor	Assistant Professor		Regular	Yes
8	Dr MAHADEVASWAMY M	XXXXXXX74G	Ph.D	NIT Trichy	Manufacturing Science	09/03/2004	22.3	Lecturer	Associate Professor	19/06/2019	Regular	Yes
9	Dr. GANGADHAR N	XXXXXXX78C	Ph.D	NITK Surathkal	Manufacturing Science	05/08/2010	15.10	Lecturer	Assistant Professor		Regular	Yes
10	Dr PREETHI K	XXXXXXX76H	Ph.D	VTU	Manufacturing Science	04/08/2010	15.10	Lecturer	Assistant Professor		Regular	Yes
11	BYRE GOWDA K C	XXXXXXX49N	M.Tech	Jain university	Thermal engineering	17/03/2011	15.3	Lecturer	Assistant Professor		Regular	Yes
12	Dr SHIVAPPA.H.A	XXXXXXX10B	Ph.D	bangalore university	Machine design	26/02/2013	13.4	Lecturer	Associate Professor	06/11/2025	Regular	Yes
13	TEJESH.S	XXXXXXX24J	M.Tech	VTU	Design Engineering	26/08/2013	12.10	Assistant Professor	Assistant Professor		Regular	Yes
14	Dr RAJESH.M	XXXXXXX02K	Ph.D	Bangalore University	Machine design	06/09/2013	12.9	Assistant Professor	Assistant Professor		Regular	Yes
15	Dr MOHAN KUMAR B	XXXXXXX93L	Ph.D	VTU	Process metallurgy	10/09/2013	12.9	Assistant Professor	Assistant Professor		Regular	Yes

16	AMITH KUMAR S N	XXXXXXX23B	M.Tech	VTU	Machine design	22/11/2013	12.7	Assistant Professor	Assistant Professor		Regular	Yes
17	Dr.JAYANTH HOMBALIAH	XXXXXXX30R	Ph.D	VTU	Machine design	11/01/2016	10.5	Assistant Professor	Assistant Professor		Regular	Yes
18	RATHIKA M	XXXXXXX21F	M.E.	Bangalore Univeristy	Machine design	13/01/2016	10.5	Assistant Professor	Assistant Professor		Regular	Yes
19	Dr. ARAVINDA D	XXXXXXX05Q	Ph.D	Bangalore university	Thermal power Engg.	14/01/2016	10.5	Assistant Professor	Assistant Professor		Regular	Yes
20	RAJESH CHANDRA C	XXXXXXX67D	M.Tech	VTU	Machine design	18/01/2017	9.5	Assistant Professor	Assistant Professor		Regular	Yes
21	SRINUVAS N	XXXXXXX33P	M.Tech	VTU	Production engineering	20/01/2017	9.5	Assistant Professor	Assistant Professor		Regular	Yes
22	Dr VISHWANATH M M	XXXXXXX10E	Ph.D	Bangalore university	Thermal power Engg.	20/01/2017	9.5	Assistant Professor	Assistant Professor		Regular	Yes
23	Dr. VINODH K L	XXXXXXX70E	Ph.D	Siddartha University	Thermal power Engg.	14/11/2018	7.7	Assistant Professor	Assistant Professor		Regular	Yes
24	Dr. K M PURUSHOTHAMA	XXXXXXX19B	Ph.D	Bangalore University	Machine design	30/09/1997	27.10	Lecturer	Professor	12/04/2013	Regular	No
25	Dr. B.GANGADHARSHETTY	XXXXXXX03N	Ph.D	PSG comibatore	Metal Casting Science	28/09/1991	33.7	Lecturer	Professor	11/10/2011	Regular	No
26	CHANDRASHEKAR. M	XXXXXXX91B	M.E.	Bangalore University	Metal Casting Science	23/04/1999	26.11	Lecturer	Associate Professor	22/12/2012	Regular	No
27	Dr. RAMPRASAD.C	XXXXXXX61Q	Ph.D	VTU	PDM	14/11/2013	12.7	Assistant Professor	Assistant Professor		Regular	Yes
28	Dr.A.S PRASHANTH	XXXXXXX47B	Ph.D	IIT Roorkee	Machine design	12/11/2014	11.5	Assistant Professor	Assistant Professor		Regular	No
29	R CHANDAN	XXXXXXX45R	M.Tech	VTU	CAE	22/12/2014	11.3	Assistant Professor	Assistant Professor		Regular	No
30	H S MANJUNATH	XXXXXXX08M	M.Tech	VTU	Machine design	29/12/2014	11.3	Assistant Professor	Assistant Professor		Regular	No

31	SRINATH. T	XXXXXXX60C	M.E.	Bangalore University	Metal Casting Science	22/08/1990	33.8	Lecturer	Associate Professor	02/01/2006	Regular	No
32	VENKATESH REDDY	XXXXXXX12B	M.E.	Bangalore University	Metal Casting Science	13/09/1990	33.10	Lecturer	Associate Professor	02/01/2006	Regular	No

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)	Cu A: (Y
1	Dr. N Mohan	XXXXXXX51C	XXXXXXXXXX235	Ph.D	NIT-Trichy	Manufacturing Science & Engineering	19/05/2003	23.1	Assistant Professor	Professor	01/11/2011	Regular	Ye
2	Dr. S K Rajendra	XXXXXXX03J	XXXXXXXXXX922	Ph.D	Jain University	Machine Tool Engineering	30/09/1992	33.9	Assistant Professor	Professor	21/11/2017	Regular	Ye
3	Dr. Rajeshwari P	XXXXXXX72G	XXXXXXXXXX835	Ph.D	VTU	Maintenance Engineering	26/04/1999	27.2	Assistant Professor	Professor	21/09/2017	Regular	Ye
4	Dr. C R Mahesha	XXXXXXX86H	XXXXXXXXXX186	Ph.D	Bangalore University	Machine design	20/11/2006	19.7	Assistant Professor	Assistant Professor		Regular	Ye
5	Mrs. Suprabha R	XXXXXXX89L	XXXXXXXXXX818	M.Tech	VTU	Thermal Power Engineering	24/10/2005	20.8	Assistant Professor	Assistant Professor		Regular	Ye
6	Mr. Chetan N	XXXXXXX49N	XXXXXXXXXX072	M.Tech	VTU	Computer Integrated Manufacturing	22/08/2011	14.10	Assistant Professor	Assistant Professor		Regular	Ye
7	Sarvamangala S P	XXXXXXX13C	XXXXXXXXXX061	M.Tech	VTU	Product Design and Manufacturing	11/01/2016	10.5	Assistant Professor	Assistant Professor		Regular	Ye

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 Department2

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

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.B	132	132	132
UG1.C	132	132	132
UG1.D	132	132	198
UG1: Mechanical Engineering	396	396	462
UG2.B	33	33	33
UG2.C	33	33	33
UG2.D	33	33	66
UG2: Industrial Engineering & Management	99	99	132
PG1.A	0	18	18
PG1.B	18	18	18
PG1: Machine Design	18	36	36
PG2.A	0	0	0

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
PG2.B	0	0	0
PG2: Robotics and Artificial Intelligence	0	0	0
DS=Total no. of students in all UG and PG programs in the Department	432	432	498
AS=Total no. of students of all UG and PG programs in allied departments	99	99	132
S=Total no. of students in the Department (DS) and allied departments (AS)	S1= 531	S2= 531	S3= 630
DF=Total no. of faculty members in the Department	24	28	30
AF= Total no. of faculty members in the allied Departments	7	7	7
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	F1= 31	F2= 35	F3= 37
FF=The faculty members in F who have a 100% teaching load in the first-year courses	4	4	4
Student Faculty Ratio (SFR)=S/(F-FF)	SFR1= 19.67	SFR2= 17.13	SFR3= 19.09
Average SFR for 3 years	SFR= 18.63		

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 = $2.5 \times [(10X + 4Y) / RF]$
2025-26(CAY)	19	12	26.00	22.88
2024-25(CAYm1)	20	15	26.00	25.00
2023-24(CAYm2)	17	20	31.00	20.16

C4. Faculty Cadre Proportion

- Faculty Cadre Proportion is 1(RF1): 2(RF2): 6(RF3)
- RF1= No. of Professors required = $1/9 * \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per C2 of this documents.}$

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

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

Year	Professors		Associate Professors		Assistant Professors	
	Required RF1	Available AF1	Required RF2	Available AF1	Required RF3	Available AF3
2025-26	3.00	5.00	6.00	2.00	18.00	24.00
2024-25	3.00	7.00	6.00	2.00	18.00	26.00
2023-24	4.00	7.00	7.00	2.00	21.00	28.00
Average	RF1=3.33	AF1=6.33	RF2=6.33	AF2=2.00	RF2=19.00	AF2=26.00

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	Sunil Cv	Trainer	Jv Global Pvt Ltd	Verbal Ability	13.00
2	Shashirekha	Trainer	Jv Global Pvt Ltd	Team Building	13.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Sneha	Trainer	JV Global Pvt Ltd	PRE-PLACEMENT & TECHNICAL SKILLS – VI	13.00
2	pooja V	Trainer	JV Global Pvt Ltd	PRE-PLACEMENT & TECHNICAL SKILLS – VI	13.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	-	-	-	-	0.00

C6. Academic Research

Table No. C6.1: Faculty publication details.

S.No.	Item	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)
1	Number of peer reviewed journal papers published	19	33	23
2	Number of peer reviewed conference papers published	4	3	3
3	Number of books/book chapters published	0	0	1

C7. Sponsored Research Project

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

(CAYm1)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
-	-	-	-	-	-	0.00
						Amount received (Rs.):0.00

(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
-	-	-	-	-	-	0.00
						Amount received (Rs.):0.00

(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 Raju T N	Dr CR Mahesh	Mechanical Enguineering	Development of Airfoil Thurst bearing for aerospace application	center of excellence in science, engineering & medicine (CESEM)	4 years	40.00
Dr.Vishwanath M M	-	Mechanical Engineering	Solar powered Thermo Electric Refrigerator	MSME	2 years	15.00
Dr.Raju T N	Dr.Indumathi Sk& dr. Manjunath rao	Mechanical Engineering	Designing and building a solar based autonomoussrobot for intra row weed elimination to aid small &mid sized farmers	VTU RESEARCH GRANT SCHEME	2 years	6.00
						Amount received (Rs.):61.00

Total Amount (Lacs) Received for the Past 3 Years: 61.00

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.Raju T N	-	Mechanical	Consultancy charges	ssp Enterprices	one day	0.08
Dr,Shivappa H A	Dr Preethi K	Mechanical	Density measurement	Research Scholar	one week	0.05
						Amount received (Rs.):0.13

(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
						0.00
						Amount received (Rs.):0.00

(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
						0.00
						Amount received (Rs.):0.00

Total amount (Lacs) received for the past 3 years: 0.13

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
				0.00	
			Amount received (Rs.): 0		

(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
				0.00	
			Amount received (Rs.): 0		

(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.Vishwanath M M		2 years	3.00	0.60	2 products has outcome
			Amount received (Rs.): 3.00		

Total amount (Lacs) received for the past 3 years : 3.00

PART D: Laboratory Infrastructure in the Department

(Data to be filled in for the Department)

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

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

Sr. No	Name of the Laboratory	Number of students per set up(Batch Size)	Name of the Important Equipment	Weekly utilization status(all the courses for which the lab is utilized)	Technical Manpower Support		
					Name of the Technical staff	Designation	Qualification
1	CAMD LAB	20	SOLIDWORKS SOFTWARE	15	PRAJWAL R	MECHANIC	ITI
2	CAED LAB	20	SOLID EDGE SOFTWARE	40	PRABHAKAR C	INSTRUCTOR	BE
3	CAMA	20	ANSYS SOFTWARE	15	MALLIKARJUN	INSTRUCTOR	BE, MS ENGG

4	CAM LAB	20	CAMED SOFTWARE	15	MALLIKARJUN	INSTRUCTOR	BE, MS ENGG
5	NAM LAB	20	MATLAB SOFTWARE	15	PRAJWAL R	MECHANIC	ITI
6	SIMULATION LAB	20	SOLIDWORKS SOFTWARE	15	PRAJWAL R	MECHANIC	ITI
7	HEAT TRANSFER LAB	20	1. Emissivity Measurement apparatus, 2. Thermal conductivity of metal rod, 3. Thermal conductivity of Heat transfer	15	MANJUNATH D	ASSISTANT INE	ITI
8	DESIGN LAB	20	1. Universal Vibration Test rig 2. Experiments using motorized Compressor 3. Study of Vibration of	15	MANJUNATH D	ASSISTANT INE	ITI
9	IC ENGINE LAB	20	Diesel engine 5hp cap/Single cylinder two stroke petrol engine/Air compressor Diesel engine 4 stroke/Diesel engine	15	PRABHAKAR C	INSTRUCTOR	BE
10	MEASUREMENT & METROLOGY LAB	20	1.Tool makers microscope 2.Auto collimator 3. Metallurgical Microscope 4. Dead weight pressure gauge Tester with	15	PRABHAKAR C	INSTRUCTOR	BE
11	MANUFACTURING PROCESS LAB	20	1 “AZAD’ power run blower single phase 0.5HP 220 volts 2. Swage block 3. Angle C (45°) 4. Tap and	15	PRAJWAL R	MECHANIC	ITI
12	MACHINE SHOP	20	1. Hydraulic Hack Saw m/c 2. Double Ended Bench Grinder 0.75 hp 3. PSG Center LATHE 4. Universal Milling m/c	15	RAVI SHANKAR	MECHANIC	ITI
13	MATERIAL TESTING LAB	20	1. U T M Computerized 2. Fatigue Testing Machine 3. Impact Testing Machine 4. Tension Testing Machine	15	JAISIMHA S C	ASSISTANT INE	SSLC
14	VIBRATION LAB (PG)	20	1. Accelerometer Calibrators 2. Uni axis accelerometer 3. Accelerometer 4. Triaxial accelerometer 5. Portable	15	VIJAYKUMAR P	ASSISTANT INE	ITI
15	BASIC WORK SHOP	20	1. Bench grinder 2. Pillar type drilling 3. Treadle shearing Machine 4. Polar 200 Amps Air cooled welding	15	VIJAYKUMAR P	ASSISTANT INE	ITI

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Workshop Practice	First Aid Kit Do's and Don'ts board Walk ways Protective Clothing (Uniform) and Footwear (Shoes) Fire Extinguisher Hazardous material board Electrical wires protected by MCB, RCBO and fuses Safety glasses and gloves
2	Computer Aided Engineering Drawing	Electrical wires protected by MCB, RCBO and fuses Protective Clothing (Uniform) and Footwear (Shoes) Do's and Don'ts board Fire Extinguisher
3	Computer Aided Machine Drawing	Electrical wires protected by MCB, RCBO and fuses Protective Clothing (Uniform) and Footwear (Shoes) Do's and Don'ts board Fire Extinguisher
4	Material Testing & Metallography	First Aid Kit Do's and Don'ts board Protective Clothing (Uniform) and Footwear (Shoes) Walk ways Electrical wires protected by MCB, RCBO and fuses Fire Extinguisher
5	Foundry & Forging	First Aid Kit Do's and Don'ts board Walk ways Protective Clothing (Uniform) and Footwear (Shoes) Fire Extinguisher Hazardous material board Electrical wires protected by MCB, RCBO and fuses Safety Gloves
6	Machine Shop	First Aid Kit Do's and Don'ts board Protective Clothing (Uniform) and Footwear (Shoes) Walk ways Fire Extinguisher Hazardous material board Electrical wires protected by MCB, RCBO and fuses Safety Gloves
7	Mechanical Measurements & Metrology	First Aid Kit Protective Clothing (Uniform) and Footwear (Shoes) Do's and Don'ts board Electrical wires protected by MCB, RCBO and fuses Walk ways

8	Fluid Mechanics	First Aid Kit Protective Clothing (Uniform) and Footwear (Shoes) Do's and Don'ts board Electrical wires protected by MCB, RCBO and fuses Walk ways
9	Energy Conversion	First Aid Kit Protective Clothing (Uniform) and Footwear (Shoes) Do's and Don'ts board Walk ways Fire Extinguisher Electrical wires protected by MCB, RCBO and fuses Hazardous material board
10	Heat and Mass Transfer	First Aid Kit Protective Clothing (Uniform) and Footwear (Shoes) Do's and Don'ts board Electrical wires protected by MCB, RCBO and fuses Walk ways
11	CIM LAB	Electrical wires protected by MCB, RCBO and fuses Protective Clothing (Uniform) and Footwear (Shoes) Do's and Don'ts board Fire Extinguisher
12	Computer Aided Modeling and Analysis	Electrical wires protected by MCB, RCBO and fuses Protective Clothing (Uniform) and Footwear (Shoes) Do's and Don'ts board Fire Extinguisher
13	Design	Protective Clothing (Uniform) and Footwear (Shoes) Do's and Don'ts board Walk ways Electrical wires protected by MCB, RCBO and fuses Hazardous material board

D3. Project Laboratory/Research Laboratory

Design and Analysis lab facility is setup to gain knowledge in emerging software used in industries for product development.

Ansys 26.00(Licensed version) and Solid works is used for carrying out finite element analysis, structural analysis, computational fluid dynamics and heat transfer analysis which is necessary for characterization studies in the field of mechanical, automobile, aeronautical and structural engineering.

Advanced composite lab is used to fabricate different class of composite materials used for automobile and aeronautical industries.

Sl. No	Name of the Facility	Name of the software/Equipment	Purpose	Faculty In- charge	Qualification
1	Design and Analysis Lab	Ansys 14.5	UG, PG & Consultancy Projects	Dr Satish S	Ph.D
		Solid Works		Prof Amitkumar S N	M.Tech(Ph.D)
				Dr Rajesh M	Ph.D





BASIC WORKSHOP























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)	1050	52	53	16	88
2024-25(CAYm1)	1170	58	54	17	80

2025-26(CAY)	1290	64	57	21	78
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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	3803000.00	2785207.00	4522998.00	1702522.00	3684000.00	207146.00	4831000.00	869986.00
Library	3994501.00	1142367.00	4277968.00	1372989.00	2431735.00	666780.00	3319000.00	9973.00
Laboratory equipment	51239700.00	37316809.00	40180790.00	37849801.00	45777500.00	6257660.00	62942000.00	2193098.00
Teaching and non-teaching staff salary	595939523.30	541763203.00	487517649.30	443197863.00	539439558.90	490399599.00	550048836.70	500044397.00
Outreach Programs	7487438.64	6806762.40	18458271.15	16780246.50	18588676.43	16898796.75	97066702.26	88242456.60
R&D	7350000.00	5766030.00	6900000.00	3122847.00	5021000.00	9426842.00	7872000.00	5283536.00
Training, Placement and Industry linkage	16650175.40	14758487.00	6335196.70	1315083.00	26304214.50	15184004.00	19307555.30	17552323.00
SDGs	7487438.64	6806762.40	18458271.15	16780246.50	2443688.68	16898796.75	97066702.26	88242456.60
Entrepreneurship	4991625.76	4537841.60	12305514.10	11186831.00	12392450.95	11265864.50	64722134.84	58838304.40
Others, specify	29954099.26	27227049.60	73833084.60	67120986.00	74354705.70	67595187.00	388266809.04	352969826.40
Total	728897502.00	648910519.00	672789743.00	600429415.00	730437530.16	634800676.00	1295442740.40	1114246357.00

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 //	2690000.00	2002960.00	2460000.00	1599000.00	2700000.00	742410.00	871000.00	390354.00
Software //	1800000.00	182674.00	1600000.00	1440589.00	1550000.00	1261014.00	1250000.00	857000.00
SDGs //	162500.00	99073.00	175000.00	145260.00	250000.00	194063.00	9973.00	9973.00
Support for faculty development ▲ ▼ □//	162500.00	125600.00	175000.00	152555.00	250000.00	194063.00	74937.00	74937.00
R & D //	175000.00	61897.00	200000.00	180125.00	151000.00	135192.00	125000.00	125000.00
Industrial Training, Industry expert, ▲ ▼ □//	583800.00	488005.00	318250.00	128625.00	233250.00	86597.00	23500.00	23500.00
Miscellaneous Expenses* ▲ ▼ □//	75000.00	292803.00	385000.00	369678.00	430598.00	388097.00	88000.00	82334.00
Total	5648800.00	3253012.00	5313250.00	4015832.00	5564848.00	3001436.00	2442410.00	1563098.00