

NATIONAL BOARD OF ACCREDITATION

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

Program Name : Robotics and Automation	Discipline: Engineering & Technology
Level : Under Graduate	Tier: 1
Application No: 12218	Date of Submission: 01-10-2026

PART A- Profile of the Institute

A1.Name of the Institute: Sahyadri College of Engineering & Management	
Year of Establishment : 2007	Location of the Institute: Mangaluru
A2. Institute Address: Sahyadri College of Engineering & Management, Adyar, Managluru -575007	
City:Dakshina Kannada	State:Karnataka
Pin Code:575007	Website:www.sahyadri.edu.in
Email:principal@sahyadri.edu.in	Phone No(with STD Code):0824-2277222
A3. Name and Address of the Affiliating University (if any):	
Name of the University : Visvesvaraya Technological University Bleagavi	City: Belgaum
State : Karnataka	Pin Code: 590018
A4. Type of the Institution: Autonomous CAY(2021-22)	
A5. Ownership Status: Self financing	

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

- No. of UG programs: **12**
- No. of PG programs: **4**

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	UG	BCA	2026	--	Computer Application
2	Computer Application	PG	Master of Computer Application	2026	--	Computer Application
3	Engineering & Technology	UG	Artificial Intelligence and Data Science	2021	2022	Computer Science and Engineering (Artificial Intelligence and Machine Learning)
4	Engineering & Technology	UG	Computer Science and Engineering	2007	--	Computer Science and Engineering
5	Engineering & Technology	PG	Computer Science and Engineering	2022	--	Computer Science and Engineering
6	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	2020	--	Computer Science and Engineering (Artificial Intelligence and Machine Learning)
7	Engineering & Technology	UG	Computer Science and Engineering (Cyber Security)	2021	2022	Computer Science and Engineering

8	Engineering & Technology	UG	Computer Science and Engineering (Data Science)	2020	2023	Computer Science and Engineering (Artificial Intelligence and Machine Learning)
9	Engineering & Technology	UG	Electronics & Communication Engineering	2007	--	Electronics and Communication Engineering
10	Engineering & Technology	UG	Electronics and Computer Engineering	2026	--	Electronics and Communication Engineering
11	Engineering & Technology	UG	Information Science & Engineering	2007	--	Information Science and Engineering
12	Engineering & Technology	UG	Mechanical Engineering	2007	--	Mechanical Engineering
13	Engineering & Technology	UG	Robotics and Automation	2021	--	Mechanical Engineering
14	Engineering & Technology	PG	VLSI Design and Embedded System	2026	--	Electronics and Communication Engineering
15	Management	UG	Bachelor of Business Administration	2026	--	Management
16	Management	PG	Master of Business Administration	2008	--	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
Mechanical Engineering	No	Mechanical Engineering	UG
Mechanical Engineering	No	Robotics and Automation	UG

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

No Record

PART-B: Program information**B1. Provide the Required Information for the Program Applied For:**

Table No. B1: Program details.

A. List of the Programs Offered by the Department:

SR.NO.	PROGRAM NAME	PROGRAM APPLIED LEVEL	YEAR OF START / YEAR OF CLOSED	SANCTIONED INTAKE	INCREASE/DECREASE INTAKE (if any)	YEAR OF INCREASE/DECREASE	CURRENT INTAKE	YEAR OF AICTE APPROVAL	AICTE/COMPETENT AUTHORITY APPROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROGRAM DURATION
1	Robotics and Automation	UG	2021 / --	60	No	NA	60	2021	South-West/1-9322924240/2021/EOA	Applying first time	--	--	0	4

SR.NO.	PROGRAM NAME	PROGRAM APPLIED LEVEL	YEAR OF START / YEAR OF CLOSED	SANCTIONED INTAKE	INCREASE/DECREASE INTAKE (if any)	YEAR OF INCREASE/DECREASE	CURRENT INTAKE	YEAR OF AICTE APPROVAL	AICTE/COMPETENT AUTHORITY ARROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROGRAM DURATION
2	Mechanical Engineering	UG	2007 / --	60	Yes	2022	60	2022	South-West/1-10973518558/2022/EOA	Granted accreditation for 3 years for the period (specify period)	2023	2026	2	4

Sanctioned Intake for Last Five Years for the Robotics and Automation	
Academic Year	Sanctioned Intake
2026-27	60
2025-26	60
2024-25	60
2023-24	60
2022-23	60
2021-22	90

List of the Allied Departments/Cluster and Programs:

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

A. Name of the HoD :	LAWRENCE JOSEPH FERNANDES
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)	2026-27 (CAY)	2025-26 (CAYm1)	2024-25 (CAYm2)	2023-24 (CAYm3)	2022-23 (CAYm4)	2021-22 (CAYm5)	2020-21 (CAYm6)
N=Sanctioned intake of the program (as per AICTE /Competent authority)	60	60	60	60	60	60	0
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	58	60	59	62	44	51	0
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	5	6	3	6	5	0
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	3	3	3	1	0	0	0
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	61	68	68	66	50	56	0

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]
2026-27 (CAY)	60	58	3	101.67
2025-26 (CAYm1)	60	60	3	105.00
2024-25 (CAYm2)	60	59	3	103.33

Average [(ER1 + ER2 + ER3) / 3] = 103.33≅ 100

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

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

Item	(2022-23) LYG	(2021-22) LYGm1	(2020-21) 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).	66.00	65.00	0.00
B=No. of students who graduated from the program in the stipulated course duration	40.00	48.00	0.00
Success Rate (SR)= (B/A) * 100	60.61	73.85	0.00

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 67.23

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(2025-26)	CAYm2(2024-25)	CAYm3 (2023-24)
X=(Mean of 1st year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 1st year/10)	7.60	7.25	7.07
Y=Total no. of successful students	60.00	59.00	59.00
Z=Total no. of students appeared in the examination	63.00	62.00	63.00
API [X*(Y/Z)]	7.24	6.90	6.62

Average API[(AP1+AP2+AP3)/3] : 6.92

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 (2025-26)	CAYm2 (2024-25)	CAYm3 (2023-24)
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)	7.08	6.75	7.15
Y=Total no. of successful students	60.00	63.00	46.00
Z=Total no. of students appeared in the examination	65.00	62.00	50.00
API [X * (Y/Z)]	6.54	6.86	6.58

Average API [(AP1 + AP2 + AP3)/3] : 6.66

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 (2025-26)	CAYm2 (2024-25)	CAYm3 (2023-24)
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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)	6.67	6.77	7.78
Y=Total no. of successful students	61.00	46.00	54.00
Z=Total no. of students appeared in the examination	63.00	46.00	54.00
API [X*(Y/Z)]:	6.46	6.77	7.78

Average API [(AP1 + AP2 + AP3)/3] : 7.00

B9. Placement, Higher Studies, and Entrepreneurship

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

Item	LYG (2022-23)	LYGm1(2021-22)	LYGm2(2020-21)
FS*=Total no. of final year students	66.00	65.00	0.00
X=No. of students placed	34.00	45.00	0.00
Y=No. of students admitted to higher studies	0.00	2.00	0.00
Z= No. of students taking up entrepreneurship	0.00	0.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	51.52	72.31	0.00

Average Placement Index = (P_1 + P_2 + P_3)/3: 61.92 Placement Index Points:

PART C: Faculty Details in Department and Allied Departments**(Data to be filled in for the Department and Allied Departments)****C1. Faculty details of Department and Allied Departments**

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

Sr.No	Name of the Faculty	PAN No.	Highest degree	University	Area of Specialization	Date of Joining in this Institution	Experience in years in current institute	Designation at Time Joining in this Institution	Present Designation	The date on which Designated as Professor/ Associate Professor if any	Nature of Association (Regular/ Contract/ Ad hoc)	Currently Associated (Y/N)	In case of NO, Date of Leaving	IS HOD?
1	RATHISHCHANDRA R GATTI	XXXXXX67E	Ph.D	Curtin University	Energy Harvesting	09/02/2015	11.7	Professor	Professor	09/02/2015	Regular	Yes		No
2	AJITH B S	XXXXXX81E	Ph.D	VISVESVARAYA TECHNOLOGICAL UNIVERSITY (VTU) BELAGAVI	Mechanical Engineering Sciences	11/07/2016	10.2	Assistant Professor	Associate Professor	01/08/2024	Regular	Yes		No
3	SHANKARA MURTHY H M	XXXXXX63B	Ph.D	VISVESVARAYA TECHNOLOGICAL UNIVERSITY (VTU) BELAGAVI	Mechanical Engineering Sciences	10/06/2019	7.3	Assistant Professor	Associate Professor	11/01/2022	Regular	Yes		No
4	RAMAKRISHNA DEVANANDA P	XXXXXX64R	Ph.D	NITK, SURATHKAL	Materials Engineering	22/07/2013	13.2	Assistant Professor	Associate Professor	01/08/2025	Regular	Yes		No

5	PRASAD CHANDRAN N	XXXXXXX33A	Ph.D	VISVESVARAYA TECHNOLOGICAL UNIVERSITY (VTU) BELAGAVI	Mechanical Engineering Sciences	27/06/2011	15.3	Assistant Professor	Associate Professor	10/12/2025	Regular	Yes		No
6	SUHAS	XXXXXXX12G	Ph.D	KU, RAIPUR	Mechanical Engineering	01/07/2013	13.3	Assistant Professor	Associate Professor	01/01/2026	Regular	Yes		No
7	VINAY B U	XXXXXXX61D	M.Tech	VISVESVARAYA TECHNOLOGICAL UNIVERSITY (VTU) BELAGAVI	Manufacturing Science & Engineering	20/07/2012	14.2	Assistant Professor	Assistant Professor		Regular	Yes		No
8	VIKAS G	XXXXXXX66H	M.Tech	VISVESVARAYA TECHNOLOGICAL UNIVERSITY (VTU) BELAGAVI	Product Design and Manufacturing	15/07/2013	13.2	Assistant Professor	Assistant Professor		Regular	Yes		No
9	YATHISHA K K	XXXXXXX99F	M.Tech	VISVESVARAYA TECHNOLOGICAL UNIVERSITY (VTU) BELAGAVI	Machine Design	08/07/2019	7.2	Assistant Professor	Assistant Professor		Regular	Yes		No
10	VAISHAK N L	XXXXXXX66F	Ph.D	VISVESVARAYA TECHNOLOGICAL UNIVERSITY (VTU) BELAGAVI	Mechanical Engineering Sciences	15/07/2010	16.2	Assistant Professor	Associate Professor	01/08/2024	Regular	Yes		No
11	MANJUNATH PATEL G C	XXXXXXX93D	Ph.D	NITK, SURATHKAL	Mechanical Engineering	14/07/2025	1.2	Associate Professor	Professor	01/08/2026	Regular	Yes		No
12	KIRAN PRAKASHA A	XXXXXXX74R	M.Tech	VISVESVARAYA TECHNOLOGICAL UNIVERSITY (VTU) BELAGAVI	Computer Integrated Manufacturing	01/07/2011	15.3	Assistant Professor	Assistant Professor		Regular	Yes		No
13	ABHISHEK K	XXXXXXX10K	M.Tech	VISVESVARAYA TECHNOLOGICAL UNIVERSITY (VTU) BELAGAVI	Product Design and Manufacturing	15/06/2017	9.3	Assistant Professor	Assistant Professor		Regular	Yes		No
14	SUNIL H V	XXXXXXX00R	M.Tech	VISVESVARAYA TECHNOLOGICAL UNIVERSITY (VTU) BELAGAVI	Machine Design	27/06/2019	7.3	Assistant Professor	Assistant Professor		Regular	Yes		No
15	PAVITRA AJAGOL	XXXXXXX25P	M.Tech	VISVESVARAYA TECHNOLOGICAL UNIVERSITY (VTU) BELAGAVI	Product Design and Manufacturing	15/07/2013	13.2	Assistant Professor	Assistant Professor		Regular	Yes		No
16	SHIVAKUMAR K MALLADAD	XXXXXXX31B	M.Tech	VISVESVARAYA TECHNOLOGICAL UNIVERSITY (VTU) BELAGAVI	Production Management	15/07/2014	12.2	Assistant Professor	Assistant Professor		Regular	Yes		No
17	ADESH PADIVAL B	XXXXXXX21F	M.Tech	Manipal University	Engineering Management	01/07/2017	9.3	Assistant Professor	Assistant Professor		Regular	Yes		No

18	GAGAN K SHETTY	XXXXXXX46B	M.Tech	VISVESVARAYA TECHNOLOGICAL UNIVERSITY (VTU) BELAGAVI	Manufacturing Science & Engineering	15/06/2017	9.3	Assistant Professor	Assistant Professor		Regular	Yes		No
19	GAUTHAM NAYAK	XXXXXXX53B	MS	University of Mysore	Design	01/08/2019	7.2	Assistant Professor	Assistant Professor		Regular	Yes		No
20	SHRUTHI D POONJA	XXXXXXX06L	M.Tech	VISVESVARAYA TECHNOLOGICAL UNIVERSITY (VTU) BELAGAVI	Machine Design	17/01/2023	3.8	Assistant Professor	Assistant Professor		Regular	Yes		No
21	SHIV PRASAD	XXXXXXX76L	M.E.	IISc, BANGALURU	Mechanical Engineering	01/08/2025	1.2	Assistant Professor	Assistant Professor		Regular	Yes		No
22	YAJNESHA P SHETTIGAR	XXXXXXX47J	M.Tech	VISVESVARAYA TECHNOLOGICAL UNIVERSITY (VTU) BELAGAVI	Machine Design	03/08/2026	0.1	Assistant Professor	Assistant Professor		Regular	Yes		No
23	PULKIT GARG	XXXXXXX10P	MS	University of Lille	Robotics & Transport	30/08/2025	0.8	Assistant Professor	Assistant Professor		Regular	No	28/05/2026	No
24	KESHAVENI	XXXXXXX48R	Ph.D	Dr. MGR UNIVERSITY	ELECTRONICS AND COMMUNICATION	01/08/2023	1.8	Professor	Professor	01/08/2023	Regular	No	30/04/2025	No
25	B C PRAMOD	XXXXXXX90P	M.Tech	NITK, SURATHKAL	MECHATRONICS	03/11/2016	8.5	Assistant Professor	Assistant Professor		Regular	No	30/04/2025	No
26	K SUDHEENDRA NAYAK	XXXXXXX14K	M.Tech	VISVESVARAYA TECHNOLOGICAL UNIVERSITY (VTU) BELAGAVI	Machine Design	07/10/2021	3.6	Assistant Professor	Assistant Professor		Regular	No	30/04/2025	No
27	LAWRENCE JOSEPH FERNANDES	XXXXXXX65D	Ph.D	VISVESVARAYA TECHNOLOGICAL UNIVERSITY (VTU) BELAGAVI	Mechanical Engineering Sciences	14/07/2012	14.2	Assistant Professor	Associate Professor	01/08/2023	Regular	Yes		Yes

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

C2. Student-Faculty Ratio (SFR)

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

UG1=1st UG program

UGn=nth UG program

B= No. of Students in UG 2nd year (ST)**C**= No. of Students in UG 3rd year (ST)**D**= No. of Students in UG 4th year (ST)

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

PG1=1st PG program.

PGm=mth PG program

A= No. of Students in PG 1st year**B**= No. of Students in PG 2nd yearStudent 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 Department2 No. of PG Programs in the Department0
Table No.C2.1: Student-faculty ratio.

Description	CAY(2026-27)	CAYm1 (2025-26)	CAYm2 (2024-25)
UG1.B	66	66	66
UG1.C	66	66	66
UG1.D	66	66	96
UG1: Mechanical Engineering	198	198	228
UG2.B	65	66	64
UG2.C	66	64	66
UG2.D	64	66	65
UG2: Robotics and Automation	195	196	195
DS=Total no. of students in all UG and PG programs in the Department	393	394	423
AS=Total no. of students of all UG and PG programs in allied departments	0	0	0
S=Total no. of students in the Department (DS) and allied departments (AS)	S1= 393	S2= 394	S3= 423
DF=Total no. of faculty members in the Department	23	23	23
AF= Total no. of faculty members in the allied Departments	0	0	0
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	F1= 23	F2= 23	F3= 23
FF=The faculty members in F who have a 100% teaching load in the first-year courses	4	4	3
Student Faculty Ratio (SFR)=S/(F-FF)	SFR1= 20.68	SFR2= 20.74	SFR3= 21.15
Average SFR for 3 years	SFR= 20.86		

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]]
2026-27(CAY)	9	14	19.00	19.21
2025-26(CAYm1)	7	16	19.00	17.63
2024-25(CAYm2)	6	17	21.00	15.24

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 = $2/9 \times$ 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 = $6/9 \times$ 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
2026-27	2.00	2.00	4.00	7.00	13.00	14.00
2025-26	2.00	1.00	4.00	6.00	13.00	16.00
2024-25	2.00	2.00	5.00	4.00	14.00	17.00
Average	RF1=2.00	AF1=1.67	RF2=4.33	AF2=5.67	RF2=13.33	AF2=15.67

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	Jinto Thomas	Adjunct Faculty-Software Developer	Riskconnect Services Private Limited Mangalore	Object-Oriented Programming System	52.00
2	Hemantha Prabhu Basoor	Professor of Practice -Designated Partner	Sahyaware Technologies LLP Mangalore	Mechanics of Materials	26.00
3	Hemantha Prabhu Basoor	Professor of Practice -Designated Partner	Sahyaware Technologies LLP Mangalore	Hydraulic and Pneumatic Systems	25.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Hemantha Prabhu Basoor	Professor of Practice -Designated Partner	Sahyaware Technologies LLP Mangalore	Mechanics of Materials	25.00
2	Hemantha Prabhu Basoor	Professor of Practice -Designated Partner	Sahyaware Technologies LLP Mangalore	Hydraulics and Pneumatics	26.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Hemantha Prabhu Basoor	Professor of Practice -Designated Partner	Sahyaware Technologies LLP Mangalore	Mechanics of Materials	26.00
2	Hemantha Prabhu Basoor	Professor of Practice -Designated Partner	Sahyaware Technologies LLP Mangalore	Hydraulics and Pneumatics	25.00

C6. Academic Research

Table No. C6.1: Faculty publication details.

S.No.	Item	2025-26 (CAYm1)	2024-25 (CAYm2)	2023-24 (CAYm3)
1	No. of peer reviewed journal papers published	14	11	13
2	No. of peer reviewed conference papers published	2	1	1

3	No. of books/book chapters published	9	11	11
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C7. Sponsored Research Project

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

(CAYm1)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr. Suhas		Department of Mechanical Engineering	Design and development of poultry patrolling and health monitoring robot with the aid of image processing and deep learning techniques	KSCST. Government of Karnataka	1 year	0.07
Dr. Lawrence Joseph Fernandes	Mr. Shivakumar K M	Department of Mechanical Engineering	Design and fabrication of hydrokinetic turbine	KSCST. Government of Karnataka	1 year	0.06
Dr. Ajith B. S.		Department of Mechanical Engineering	Design and development of a black pepper skin peeling machine	KSCST. Government of Karnataka	1 year	0.07
Mr. Yathisha K K		Department of Mechanical Engineering	Design and development of an autonomous spherical robot for intelligent power grid inspection and fault detection	KSCST. Government of Karnataka	1 year	0.06
Mr. Vinay B U	Mr. Pavitra Ajagol	Department of Mechanical Engineering	Design and fabrication of smart airport luggage trolley (SALT) system	KSCST. Government of Karnataka	1 year	0.05
Mr. Yathisha K K	Mr. Adesh Padival	Department of Mechanical Engineering	Design and development of automated fish sorting and grading system using AI and computer vision	KSCST. Government of Karnataka	1 year	0.06
Mr. Vinay B.U.		Department of Mechanical Engineering	Design and development of all-terrain unmanned vehicle	KSCST. Government of Karnataka	1 year	0.07
Dr. Prasad Chandran N		Department of Mechanical Engineering	Accident detection and alert system with geofencing technology	KSCST. Government of Karnataka	1 year	0.05
						Amount received (Rs.):0.49

(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
Mr. Abhishek K		Department of Mechanical Engineering	Synchromesh Gear Assembly	Karnataka Innovation and Technology Society, Dept. of Electronics, IT and BT, Govt. of Karnataka	4 years	2.34
Dr. Ajith BS		Department of Mechanical Engineering	Educational Drone Kit – FLYFI Autonomous UAS for Disaster Surveillance	Karnataka Innovation and Technology Society, Dept. of Electronics, IT and BT, Govt. of Karnataka	4 years	2.40
Dr. Ajith B S		Department of Mechanical Engineering	Performance, Combustion, and Emission Analysis of Biodiesel from Ternary Blends of Safflower Oil, Mutton Tallow, and Waste Coconut Oil in a Diesel Engine	KSCST. Government of Karnataka	1 year	0.06
Mr. Abhishek K		Department of Mechanical Engineering	Design and Development of an Automatic Pill Dispenser for Elderly Care	KSCST. Government of Karnataka	1 year	0.07
Dr. Shankara Murthy H M		Department of Mechanical Engineering	Design and Development of a Vertical Axis Wind Turbine for Aerodynamic Enhancements	KSCST. Government of Karnataka	1 year	0.05
Mr. Suhas		Department of Mechanical Engineering	Design and Development of an Intelligent Mobility Support System for Physically Impaired Individuals Using Robot Operating System (ROS2) and Machine Learning Models	KSCST. Government of Karnataka	1 year	0.05
Dr. Rathishchandra R Gatti		Department of Mechanical Engineering	Design and Development of an Anti-Tremor Soft Robotic Exoskeleton for Damping Hand Tremors in Elderly and PHT Patients	KSCST. Government of Karnataka	1 year	0.05
Dr. Ajith B S		Department of Mechanical Engineering	Establishment of AICTE-IDEA Lab (IDEA Idealab ID – IDEA202003645)	AICTE, New Delhi	2 years	90.00
						Amount received (Rs.):95.02

(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
Mr. Ajith B. S.		Department of Mechanical Engineering	Design and Development of an Unmanned Underwater Search, Rescue, and Analysis Vehicle	KSCST. Government of Karnataka	1 year	0.07
Dr. Shankara Murthy H. M		Department of Mechanical Engineering	Design and Fabrication of a Multipurpose Dehydration Unit Using Waste Biomass	KSCST. Government of Karnataka	1 year	0.07
Dr. Lawrence Joseph Fernandes		Department of Mechanical Engineering	Design and Fabrication of a Seed Sprayer for Kharif Crops	KSCST. Government of Karnataka	1 year	0.07
						Amount received (Rs.):0.21

Total Amount (Lacs) Received for the Past 3 Years: 95.72

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
Prof. Hemanth Prabhu		Department of Mechanical and Robotics Engineering	Rural Development Activities	Karnataka Rural Infrastructure Development Limited (KRIDL)	1 Year	16.18
						Amount received (Rs.):16.18

(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
Prof. Hemanth Prabhu		Department of Mechanical and Robotics Engineering	Rural Development Activities	Karnataka Rural Infrastructure Development Limited (KRIDL)	1 Year	14.60
						Amount received (Rs.):14.60

(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
Prof. Hemanth Prabhu		Department of Mechanical and Robotics Engineering	Rural Development Activities	Karnataka Rural Infrastructure Development Limited (KRIDL)	1 Year	45.03
						Amount received (Rs.):45.03

Total amount (Lacs) received for the past 3 years: 75.81**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
			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
Dr.Ajith BS	Development of Fabrication Lab	2	20.00	20.00	Publications,Patents and Student Projects
			Amount received (Rs.): 20.00		

(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
			Amount received (Rs.): 0		

Total amount (Lacs) received for the past 3 years : 20.00

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	Material Testing Lab	20	Universal Testing Machine – 400KN, with 180° bending test attachment. • Torsion testing machine - 100 N-m.	30	Mr. Vijesh	Instructor	D.M.E
2	Mechanical Measurement and Metrology Lab	20	Calibration of pressure gauge setup. • Calibration of LVDT setup. • Calibration of Load cell. •	30	Mr. Vishu Kumar	Foreman	D.M.E
3	OOPS Lab/ IoT Lab/ Microcontroller and PLC Lab	20	Intel i7 @ Core Ultra 7 265 5.30G 30 MB 20 Cores 65W CPU Q870 • Microcontroller 8051 trainer kit • PLC	27	Ms. Bhavya	Instructor	D.E.E
4	Prototype Fabrication Lab	20	Tig welding Machine. • Grinding Machine • Cutting Machines • Bosch jigsaw • Metal sheet cutter •	30	Mr. Ranjith	Asst. Instructor	ITI
5	Robot Programming Lab	20	ArmPi Pro Robot Chassis-RBC1036 • Jet Tank AI Tracked Mobile Robot Kit • WAVEGO 12 DOF	18	Ms. Supreetha	Instructor	D.E.C
6	Hydraulic and Pneumatic Lab	20	Air Compressor • Pneumatic test kits	18	Mr. Ranjan P	Senior Instructor	BE
7	3D Printing Lab	20	3D Printer – 07Nos • 10W laser engraving machine – 01 Nos	22	Ms. Bhavya	Instructor	D.E.E.

8	Modeling and Analysis Lab	70	Intel i7 ® Core Ultra 7 265 5.30G 30 MB 20 Cores 65W CPU Q870 • Femap Nastran software – 25	30	Mr. Sachin P	Instructor	B.E
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D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Material Testing Lab	•General laboratory safety rules and operating instructions are prominently displayed. •Laboratory-specific safety guidelines are displayed for students and staff. •First aid box, fire extinguisher, and emergency contact details are readily available. •Laboratory apron, safety shoes, gloves, and safety goggles are mandatory wherever applicable. •Equipment is operated only under the supervision of trained faculty/technical staff. •Testing machines are inspected, and safety guards are checked before operation. •Specimens are securely mounted, and safe operating distances are maintained during testing. •Sharp-edged specimens and metallographic samples are handled using protective gloves. •Laboratory work areas are kept clean, organized, and free from obstructions. •Loose clothing and unsecured long hair are prohibited near rotating equipment. •Equipment malfunctions, spills, and accidents are reported immediately to the laboratory staff. •Electrical equipment is switched off after use, and laboratory waste is disposed of as per prescribed safety guidelines.
2	Mechanical Measurement and Metrology Lab	•General laboratory safety rules and operating instructions are prominently displayed. •Laboratory-specific safety guidelines are displayed for students and staff. •First aid box, fire extinguisher, and emergency contact details are readily available. •Laboratory apron, safety shoes, gloves, and safety goggles is used wherever applicable. •Precision measuring instruments are handled carefully to avoid damage and ensure measurement accuracy. •Measuring instruments are cleaned, calibrated, and returned to their designated storage after use. •Workpieces are securely positioned during measurement to prevent slipping or injury. •Measuring surfaces and instruments are kept free from dust, oil, and moisture to maintain accuracy. •Laboratory benches and walkways are kept clean, organized, and free from obstructions. •Equipment is operated only under the supervision of trained faculty/technical staff. •Equipment malfunctions or damaged measuring instruments are reported immediately to the laboratory staff. •Electrical equipment is switched off after use, and laboratory waste is disposed of according to prescribed safety guidelines.
3	OOPS Lab / IoT Lab / Microcontroller and PLC Lab	•General laboratory safety rules and operating instructions are displayed. •Laboratory-specific safety guidelines are displayed for students and staff. •First aid box, fire extinguisher, and emergency contact details are readily available. •Computers, workstations, and peripherals are used only under the supervision of faculty/technical staff. •Food and beverages are prohibited near computer systems and laboratory equipment. •Laboratory workstations and aisles are kept clean, organized, and free from obstructions. •Unauthorized software installation or modification is prohibited. •Equipment malfunctions, electrical faults, and unsafe conditions are reported immediately to the laboratory staff.
4	Prototype Fabrication Lab	•General laboratory safety rules and operating instructions are displayed. •Laboratory-specific safety guidelines for fitting and welding operations are displayed. •First aid box, fire extinguishers, sand bucket, and emergency contact details are readily accessible. •Laboratory apron, safety shoes, leather gloves, welding helmet/face shield, and safety goggles are mandatory. •Fitting and welding equipment are operated under the supervision of faculty/technical staff. •Welding machines, and electrical cables are inspected before use to ensure safe operation. •Workpieces are securely clamped before the operations. •Adequate ventilation is ensured during welding to minimize exposure to harmful fumes. •Sparks, hot metal, and welding arcs are kept away from flammable materials and unauthorized personnel. •Sharp-edged materials, cutting tools, and hot workpieces are handled using appropriate protective equipment. •Loose clothing, dangling accessories, and unsecured long hair are prohibited near rotating tools and welding equipment. •The laboratory work area is maintained clean, dry, and free from metal scrap, oil spills, and other obstructions. •Equipment malfunctions, electrical faults, and accidents are reported immediately to the laboratory staff. •Welding machines and electrical equipment are switched off after use. •Metal scrap, welding electrodes, slag, and other waste materials are disposed properly.
5	Robot Programming Lab	•General laboratory safety rules and operating instructions are displayed. •Laboratory-specific safety guidelines are displayed for students and staff. •First aid box, fire extinguisher, and emergency contact details are readily available. •Computers, workstations, and peripherals are used only under the supervision of faculty/technical staff. •Food and beverages are prohibited near computer systems and laboratory equipment. •Laboratory workstations and aisles are kept clean, organized, and free from obstructions. •Unauthorized software installation or modification is prohibited. •Equipment malfunctions, electrical faults, and unsafe conditions are reported immediately to the laboratory staff.

6	Hydraulic and Pneumatic Lab	•General laboratory safety rules and operating instructions are prominently displayed. •Laboratory-specific safety guidelines for pneumatic equipment are displayed for students and staff. •First aid box, fire extinguisher, and emergency contact details are readily available. •Safety shoes, and apron are used wherever applicable. •Pneumatic equipment is operated only under the supervision of trained faculty/technical staff. •Compressed-air lines, hoses, fittings, valves, and connections are inspected for leakage or damage before operation. •The compressed-air supply is switched off and pressure is released before making any changes to the pneumatic circuit. •Pneumatic components and hoses are securely connected before supplying compressed air. •The specified operating pressure of cylinders, valves, hoses, and other components is not exceeded. •Students are instructed not to direct compressed air toward themselves or others. •Moving parts such as pneumatic cylinders and actuators are kept clear of hands and other body parts during operation. •Work areas are kept clean, organized, dry, and free from obstructions. •Loose clothing and unsecured long hair are kept away from moving pneumatic components. •Equipment malfunctions, air leakage, damaged hoses, or abnormal operation are reported immediately to the laboratory staff. •After completion of experiments, the compressed-air supply is switched off, residual pressure is safely released, and the equipment is returned to its designated position.
7	3D Printing Lab	•General laboratory safety rules and operating instructions are displayed. •Operate the 3D printer only after receiving proper training and under the supervision of the laboratory instructor. •Inspect the printer, power connections, and filament before starting the print. •Keep hands away from moving parts during printer operation. •Do not touch the nozzle, hot end, or heated build plate during or immediately after printing. •Ensure the printer is operated in a well-ventilated area, especially when printing with materials that emit fumes. •Wear safety glasses, when removing prints or performing maintenance. •Keep flammable materials away from the printer and never leave the printer unattended for extended periods. •Remove printed parts only after the build plate has cooled or using appropriate tools. •Switch off and unplug the printer before cleaning, maintenance, or replacing components. •Report any equipment malfunction, unusual noise, or overheating to the laboratory instructor immediately.
8	Modeling and Analysis Lab	•General laboratory safety rules and operating instructions are displayed. •Laboratory-specific safety guidelines are displayed for students and staff. •First aid box, fire extinguisher, and emergency contact details are readily available. •Computers, workstations, and peripherals are used only under the supervision of faculty/technical staff. •Food and beverages are prohibited near computer systems and laboratory equipment. •Laboratory workstations and aisles are kept clean, organized, and free from obstructions. •Unauthorized software installation or modification is prohibited. •Equipment malfunctions, electrical faults, and unsafe conditions are reported immediately to the laboratory staff.

D3. Project Laboratory/Research Laboratory

Table No. 7.5.1: List of project laboratory/research laboratory /Centre of Excellence.

Sl. No	Name of the Facility	Name of the Equipment's/ Software
1	Project Lab	• TIG welding Machine. • Grinding Machine • Cutting Machines • Bosch jigsaw • Metal sheet cutter • Drilling machine and drill bit set • Measuring instruments • Soldering kit
2	CoE – Advanced Energy Lab	• Biodiesel Production Setup • Gas Chromatography • Microwave • Magnetic Stirrer • Wave energy extraction Setup
3	CoE- Robot Welding	• 6-axis Articulated Robot Type MIG Welding • 6-axis Articulated Robot Type TIG Welding
4	CoE – Robotic Lab (Industry Supported Lab - Mphasis)	• NVIDIA Jetson AGX Orin Developer Kit (64 GB) • TurtleBot 4 Lite • Intel RealSense Depth Camera D455 • Elephant Robotics myCobot 280 Pi • Pixhawk 2.4.8 Flight Controller Kit with YDLIDAR G4 (2D) • Raspberry Pi AI HAT+ (26 TOPS) • Embedded Systems Development Kits • Brain-Computer Interface (BCI) & Biosensing Systems
5	Axtroid Centre of Excellence	• Desktop 3D printer • Hand held 3d scanner • VR headset with PC

PART E: First Year faculty and financial Resources

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

E1. First Year Student-Faculty Ratio (FYSFR)

Table No. E1.1: FYSFR details.

Year	Sanctioned intake of all UG programs (S4)	No. of required faculty (RF4= S4/20)	No. of faculty members in Basic Science Courses & Humanities and Social Sciences including Management courses (NS1)	No. of faculty members in Engineering Science Courses (NS2)	Percentage= No. of faculty members ((NS1*0.8) + (NS2*0.2))/(No. of required faculty (RF4)); Percentage= ((NS1*0.8) +(NS2*0.2))/RF
2024-25(CAYm2)	780	39	37	13	83
2025-26(CAYm1)	780	39	42	14	93
2026-27(CAY)	840	42	43	15	89

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 2026-27	Actual Expenses in 2026-27 till	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
Infrastructure Built-Up //	750	1789.52	1000	919.03	250	275.55	450	90.11
Library //	15	3.37	20	5	55	4.73	25	3.02
Laboratory equipment //	441.28	385.02	285	123.95	150	190.71	125	8.60
Teaching and non-teaching staff salary ⇅ //	2311	1068.71	1835	1981	1650	1613.32	1550	1524.68
Outreach Programs //	148.80	91.85	27	30.69	25	49.54	18	20.14
R&D //	136	44.41	110	50	100	76.05	100	170.8
Training, Placement and Industry linkage ⇅ //	317.90	169.81	300	325	185	322.63	170	276.12
SDGs //	4	3.2	35	27.87	25	19.6	15	12.06
Entrepreneurship //	8	2.2	75	60	75	54.27	60	70
Others, specify //	224.30	189.16	1300	1510	896	1003.33	784	1580.65
Total	4356.28	3747.25	4987	5032.54	3411	3609.73	3297	3756.18

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 2026-27	Actual Expenses in 2026-27 till	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
Laboratory equipment //	49.11	45.69	39.11	17.01	22.06	8.45	19.14	6.97

Software	6.13	2.51	2.67	3.05	1.94	2.14	0.96	1.92
SDGs	0.50	0.4	4.8	3.82	3.68	2.88	2.3	1.85
Support for faculty development	14.76	6.75	11.72	9.88	1.11	1.86	5.77	7.67
R & D	17.03	5.56	15.09	6.86	14.71	7.08	15.32	15.21
Industrial Training, Industry expert, Internship	25.04	14.51	33.15	38.92	29.77	52.87	23.02	37.7
Miscellaneous Expenses*	28.08	23.68	186.01	212.39	140.85	153.39	128.3	250.88
Total	140.65	99.10	292.55	291.93	214.12	228.67	194.81	322.20