

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 : 2
Application No : 11794	Date of Submission : 14-05-2026

PART A- Profile of the Institute

A1.Name of the Institute : Pune Vidyarthi Grihas College of Engineering and Shrikrushna S Dhamankar Institute of Management	
Year of Establishment : 2010	Location of the Institute: NASHIK
A2. Institute Address :206, Dindoriroad, Mhasrul	
City:Nashik	State:Maharashtra
Pin Code:422004	Website:pvgcoenashik.org
Email:principal@pvgcoenashik.org	Phone No(with STD Code):0253-6480036
A3. Name and Address of the Affiliating University (if any) :	
Name of the University : Savitribai Phule Pune University	City: Pune
State : Maharashtra	Pin Code: 411007
A4. Type of the Institution : Non-Autonomous (Affiliated)	
A5. Ownership Status : Self financing	

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

- No. of UG programs: **5**
- No. of PG programs: **1**

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	2021	--	Artificial Intelligence and Data Science
2	Engineering & Technology	UG	Computer Engineering	2010	--	Computer Engineering
3	Engineering & Technology	UG	Electronics and Telecommunication Engineering	2010	--	Electronics and Telecommunication Engineering
4	Engineering & Technology	UG	Information Technology	2010	--	Information Technology
5	Engineering & Technology	UG	Mechanical Engineering	2010	--	Mechanical Engineering
6	Management	PG	Master of Business Administration	2020	--	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
Computer Engineering	No	Computer Engineering	UG
Mechanical Engineering	No	Mechanical Engineering	UG
Electronics and Telecommunication Engineering	No	Electronics and Telecommunication 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)

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 ARROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROGRAM DURATION
1	Mechanical Engineering	UG	2010 / --	60	No	NA	60	2010	West/1-5149611/2010/ New Dated: 13/06/2010	Applying first time	--	--	0	4

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 :	Amol Ramdas Rasane
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)
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N=Sanctioned intake of the program (as per AICTE / Competent authority)	60	60	60	60	60	60	60
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	60	59	33	28	3	0	5
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	13	11	6	13	12	12
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	4	3	1	5	0	0	0
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	64	75	45	39	16	12	17

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)	60	60	4	106.67
2024-25 (CAYm1)	60	59	3	103.33
2023-24 (CAYm2)	60	33	1	56.67

Average [(ER1 + ER2 + ER3) / 3] = 88.89≡ 17.00

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).	73.00	72.00	72.00
B=No. of students who graduated from the program in the stipulated course duration	6.00	1.00	12.00
Success Rate (SR)= (B/A) * 100	8.22	1.39	16.67

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 8.76

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)
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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)	8.01	7.16	7.07
Y=Total no. of successful students	57.00	22.00	18.00
Z=Total no. of students appeared in the examination	62.00	34.00	33.00
API [X*(Y/Z)]	7.36	4.63	3.86

Average API[(AP1+AP2+AP3)/3] : 5.28

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)	8.79	0.00	7.70
Y=Total no. of successful students	19.00	24.00	8.00
Z=Total no. of students appeared in the examination	33.00	24.00	16.00
API [X * (Y/Z)]	5.06	0.00	3.85

Average API [(AP1 + AP2 + AP3)/3] : 2.97

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)	7.89	9.36	8.00
Y=Total no. of successful students	14.00	6.00	2.00
Z=Total no. of students appeared in the examination	24.00	8.00	12.00
API [X*(Y/Z)]:	4.60	7.02	1.33

Average API [(AP1 + AP2 + AP3)/3] : 4.32

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	66.00	66.00	66.00
X=No. of students placed	2.00	1.00	7.00
Y=No. of students admitted to higher studies	0.00	0.00	1.00
Z= No. of students taking up entrepreneurship	1.00	0.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	4.55	1.52	12.12

Average Placement Index = (P_1 + P_2 + P_3)/3: 6.06 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	Amol Ramdas Rasane	XXXXXXX16B	Ph.D	University of Pune	Mechanical Design Engineering	31/07/2010	15.9	Lecturer	Assistant Professor		Regular	Yes		Yes
2	Shivaji Vishwanath Gawali	XXXXXXX35L	Ph.D	Dr. Babasaheb Ambedkar Marathwada University	Mechanical Design Engineering	15/09/2009	16.7	Assistant Professor	Associate Professor	01/05/2014	Regular	Yes		No
3	Vaibhav Chopade	XXXXXXX29K	M.Tech	Mumbai University	Mechanical Engineering (Machine Design)	15/06/2015	10.10	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
4	Paresh Dilip Badgujar	XXXXXXX46M	M.E.	Rajiv Gandhi Proudhyogiki Vishwavidyalaya	Thermal Engineering	19/04/2022	4	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
5	Santosh Sarode	XXXXXXX40L	M.E.	Rajiv Gandhi Proudhyogiki Vishwavidyalaya	Design Engineering	17/08/2022	3.8	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
6	Sudhir Ashok Shardul	XXXXXXX55E	M.E.	University of Pune	Mechanical (CAD/CAM/ CAE)	24/08/2022	3.8	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
7	Santosh Kailas Chandole	XXXXXXX54G	M.E.	University of Pune	Mechanical Design Engineering	18/08/2023	2.8	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
8	Yogita Uttamrao Medhane	XXXXXXX05A	M.E.	Savitribai Phule Pune University	Mechanical Design Engineering	03/02/2018	8.3	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No

9	Anil Dattatraya Mandlik	XXXXXXXX18C	M.E.	University of Pune	Manufacturing	11/07/2022	3.10	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
10	Pankaj Devidas Wadile	XXXXXXXX67C	M.E.	University of Pune	Mechanical Design Engineering	13/06/2018	7.10	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
11	Vaibhav Gangadhar Jape	XXXXXXXX30J	M.E.	University of Pune	Mechanical Design Engineering	16/08/2025	0.8	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
12	Suhas Vilas Dharane	XXXXXXXX08Q	M.E.	Savitribai Phule Pune University	Structure	02/08/2010	15.9	Assistant Professor	Assistant Professor		Regular	Yes		No

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 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	66	66	66
UG1.C	66	66	66
UG1.D	66	66	64
UG1: Mechanical Engineering	198	198	196
DS=Total no. of students in all UG and PG programs in the Department	198	198	196

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
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= 198	S2= 198	S3= 196
DF=Total no. of faculty members in the Department	12	11	11
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= 12	F2= 11	F3= 11
FF=The faculty members in F who have a 100% teaching load in the first-year courses	3	2	2
Student Faculty Ratio (SFR)=S/(F-FF)	SFR1= 22.00	SFR2= 22.00	SFR3= 21.78
Average SFR for 3 years	SFR= 21.93		

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)	2	10	9.00	16.67
2024-25(CAYm1)	2	9	9.00	15.56
2023-24(CAYm2)	2	9	9.00	15.56

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 = $2/9 * \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents:}$.
- RF3= No. of Assistant Professors required = $6/9 * \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents:}$.
- 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	1.00	0.00	2.00	1.00	7.00	2.00
2024-25	1.00	0.00	2.00	1.00	7.00	2.00

2023-24	1.00	0.00	2.00	1.00	7.00	2.00
Average	RF1=1.00	AF1=0.00	RF2=2.00	AF2=1.00	RF2=7.00	AF2=2.00

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	Mr. Rohit Sangwan and Mr. Chetan Patil	Trainer	ARK Infosolutions Pvt. Ltd	ANSYS CFD Training Program	90.00
2	Mr. Amit Joshi	Trainer	CADCAM Guru, Pune	CATIA Training Program	54.00
3	Talent Battle Team	Trainer	Talent Battle Pvt Ltd	Aptitude Training	42.00
4	Talent Battle Team	Trainer	Talent Battle Pvt Ltd	Aptitude Training	42.00

(CAYm2)

(CAYm3)

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	4	1	1
2	No. of peer reviewed conference papers published	2	0	0
3	No. of books/book chapters published	0	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)

(CAYm2)

(CAYm3)

Total amount (Lacs) received for the past 3 years:**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
Amol Rasane	NPTEL FDP on "Design thinking"	4 Week	0.01	0.01	Knowledge upgradation
Amol Rasane	NPTEL FDP on "Science Communication: research Productivity & Data analytics	12 week	0.01	0.01	Knowledge upgradation
Vaibhav Chopade	FDP on "Role of Natural Fibres in Sustainable Development"	1 week	0.00	0.00	Knowledge upgradation
Vaibhav Chopade	STTP on "Research Paper Writing and Publishing in High-Impact Journals"	05 Days	0.00	0.00	Knowledge upgradation
Paresh Badgijar	STTP on "Research Paper Writing and Publishing in High-Impact Journals"	05 Days	0.00	0.00	Knowledge upgradation
Anil Mandlik	FDP on Research and Publication Ethics	30 Days	0.04	0.04	Knowledge upgradation
			Amount received (Rs.): 0.06		

(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
Amol Rasane	Idea to Patent Course	2 week	0.00	0.00	Knowledge upgradation
Amol Rasane	AICTE evaluated Patent analytics course	2 week	0.00	0.00	Knowledge upgradation
Amol Rasane	AICTE evaluated 2 week Patent Course	2 week	0.00	0.00	Knowledge upgradation
Amol Rasane	NPTEL FDP on Innovation & startup Policy	12 Week	0.01	0.01	Knowledge upgradation
Amol Rasane	ISTE FDP on "Recent development in advance materials"	1 week	0.00	0.00	Knowledge upgradation
Amol Rasane	FDP on "Design, Technolory & Innovation"	1 week	0.01	0.01	Knowledge upgradation
Shivaji Gawali	FDP on "Entrepreneurship Awareness Program"	16 Days	0.00	0.00	Knowledge upgradation
Vaibhav Chopade	AICTE evaluated 2 week Patent Course	2 week	0.00	0.00	Knowledge upgradation
Vaibhav Chopade	STTP on Computational Fluid Mechanics	2 week	0.00	0.00	Knowledge upgradation
Santosh Sarode	AICTE evaluated 2 week Patent Course	2 week	0.00	0.00	Knowledge upgradation
			Amount received (Rs.): 0.02		

(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
Amol Rasane	FDP on Computer Integrated Manufacturing	12 Weeks	0.01	0.01	Knowledge upgradation
Shivaji Gawali	Workshop on implementtion on NEP 2020	02 Days	0.01	0.01	Knowledge upgradation
Shivaji Gawali	FDP on Recent advamnccement in RAMMC-23	1 week	0.00	0.00	Knowledge upgradation
Pankaj Wadile	FDP on Outcome base Education	07 days	0.05	0.05	Knowledge upgradation
Yogita Medhane	FDP on Outcome base Education	07 days	0.05	0.05	Knowledge upgradation
Paresh Badgujar	FDP on Outcome base Education	07 days	0.05	0.05	Knowledge upgradation
Santosh Sarode	FDP on Outcome base Education	07 days	0.05	0.05	Knowledge upgradation
Sudhir Shardul	FDP on Outcome base Education	07 days	0.05	0.05	Knowledge upgradation
Amol Rasane	FDP on Outcome base Education	07 days	0.05	0.05	Knowledge upgradation
Vaibhav Chopade	FDP on Outcome base Education	07 days	0.05	0.05	Knowledge upgradation
			Amount received (Rs.): 0.37		

Total amount (Lacs) received for the past 3 years : 0.45

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	Strength of material	5	Computerised universal testing machine, capacity 20 tonne	6	Mr.A.D.Ushire	Lab Assistant	ITI, NCTVT
2	Heat transfer	5	1.Parallel and counter flow heat exchanger 2.Heat transfer coefficient in forced convection 3.Pin fin	6	Mr.A.D.Ushire	Lab Assistant	ITI, NCTVT
3	Refrigeration & Air conditioning	5	1.Re-circulating air conditioning test rig 2.RAC components (board model) 3. Vapour compression	6	Mr.A.D.Ushire	Lab Assistant	ITI, NCTVT
4	Metallurgy	5	1.Trionocular metallurgical microscope with computerised attachment 2.Jominy end quench	6	Mr.A.D.Ushire	Lab Assistant	ITI, NCTVT
5	Mechatronics	5	1.PLC trainer 2.PID trainer 3. Rotary table positioning system	6	Mr.A.D.Ushire	Lab Assistant	ITI, NCTVT
6	CAD	1	1.Dell/Acer computer systems 2.Creo elements 3D CAD software 3.Ansys FEA software 4.ZWCAD 2D	20	Mr.A.D.Ushire	Lab Assistant	ITI, NCTVT
7	Theory of machines	5	1.Clutch friction apparatus 2.Epicyclic gear train apparatus 3. Rope brake dynamometer	6	Mr.A.D.Ushire	Lab Assistant	ITI, NCTVT
8	Dynamics of machinery	5	1.Vib lab 2.Static & dynamic balancing apparatus 3. Vibration & sound meter	6	Mr.A.D.Ushire	Lab Assistant	ITI, NCTVT
9	Fluid mechanics	5	1.Bernoullis Theorm Apparatus 2.Venturimeter & Orifice meter 3. Notch apparatus	6	Mr.A.D.Ushire	Lab Assistant	ITI, NCTVT
10	Thermodynamics	5	1.Two stage air compressor test rig 2. Flash & fire point apparatus 3. gas calorimeter test rig	6	Mr.A.D.Ushire	Lab Assistant	ITI, NCTVT
11	IC Engine	5	1.VCR diesel engine test rig 2.Petrol engine test rig	6	Mr.A.D.Ushire	Lab Assistant	ITI, NCTVT
12	Turbo machinery	5	1.Fransis turbine test rig 2.Pelton wheel turbine test rig 3. Centrifugal pump test rig	6	Mr.A.D.Ushire	Lab Assistant	ITI, NCTVT

13	Metrology and Quality Control	5	1.Profile projector 2.Auto collimator 3. Floating carriage micrometer 4. Measurement gauges	6	Mr.A.D.Ushire	Lab Assistant	ITI, NCTVT
14	Industrial fluid power	5	1.Advanced pneumatic trainer kit 2.Advanced hydraulic trainer kit 3. Gear pump test rig	6	Mr.A.D.Ushire	Lab Assistant	ITI, NCTVT
15	Drawing Hall	5	1.Drawing tables folding type without drawing board 2. Physical 3D models for Engineering Graphics	24	Mr.A.D.Ushire	Lab Assistant	ITI, NCTVT
16	Workshop	3	1.Lathe machine 2.Hacksaw machine 3) Drilling machine 4) Bench vice 5) Hydraulic bending machine 6) Surface grinding machine 7) Milling machine	24	Mr.N.M.Gosavi, Mr. S.I	Lab Assistant / Lab Att	ITI, NCTVT

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Strength of Material Laboratory	1) Do's and Don'ts statements and safety charts are displayed 2) MCBs are provided for the safety of the equipment and wires 3) The students are instructed to wear a dress code with shoes. 4) Proper earthing is maintained for protection from internal faults. 5) CCTV surveillance is available 6) Protective guards are provided on UTM 7) The load limits displayed 8) The specimens are securely clamped before testing 9) A safe distance is maintained during fracture tests 10) Supervised operation of equipment is ensured 11) Fire extinguisher is available at a common location in the department 12) First-aid kit is available at a common location in the department
2	Heat Transfer Laboratory	1) Do's and Don'ts statements and safety charts are displayed 2) MCBs are provided for the safety of the equipment and wires 3) The students are instructed to wear a dress code with shoes. 4) Proper earthing is maintained for protection from internal faults 5) A safe distance is maintained during equipment operation 6) CCTV surveillance is available 8) Temperature limits displayed 9) Prior to handling equipment, a waiting time is kept for cooling 10) Fire extinguisher is available at a common location in the department 11) First-aid kit is available at a common location in the department
3	Refrigeration and Air Conditioning Laboratory	1) Do's and Don'ts statements and safety charts are displayed 2) MCBs are provided for the safety of the equipment and wires 3) The students are instructed to wear a dress code with shoes. 4) Proper earthing is maintained for protection from internal faults. 5) CCTV surveillance is available 6) Pressure gauges are calibrated 7) Fire extinguisher is available at a common location in the department 8) First-aid kit is available at a common location in the department
4	Metallurgy Laboratory	1) Do's and Don'ts statements and safety charts are displayed 2) MCBs are provided for the safety of the equipment and wires 3) The students are instructed to wear a dress code with shoes. 4) Proper earthing is maintained for protection from internal faults. 5) CCTV surveillance is available 6) Safe handling of furnace is ensured 7) Supervised operation of equipment is ensured 8) Fire extinguisher is available at a common location in the department 9) First-aid kit is available at a common location in the department
5	Mechatronics Laboratory	1) Do's and Don'ts statements and safety charts are displayed 2) MCBs are provided for the safety of the equipment and wires 3) The students are instructed to wear a dress code with shoes. 4) Proper earthing is maintained for protection from internal faults. 5) CCTV surveillance is available 6) Supervised operation of equipment is ensured 7) Low-voltage trainer kits are used 8) Fire extinguisher is available at a common location in the department 9) First-aid kit is available at a common location in the department

6	CAD Laboratory	1) Do's and Don'ts statements and safety charts are displayed 2) MCBs are provided for the safety of the equipment and wires 3) Proper earthing is maintained for protection from internal faults. 4) CCTV surveillance is available 5) Computer systems are provided with Uninterrupted Power Supply 6) Each computer system is provided with admin login & password to prevent undesirable installations 8) Fire extinguisher is available at a common location in the department 9) First-aid kit is available at a common location in the department
7	Theory of Machines Laboratory	1) Do's and Don'ts statements and safety charts are displayed 2) MCBs are provided for the safety of the equipment and wires 3) Proper earthing is maintained for protection from internal faults 4) Rotating parts are provided with guards 5) Speed limits are specified for rotating parts 6) A safe distance is maintained during operation of equipment 7) CCTV surveillance is available 8) Fire extinguisher is available at a common location in the department 9) First-aid kit is available at a common location in the department
8	Dynamics of Machinery Laboratory	1) Do's and Don'ts statements and safety charts are displayed 2) MCBs are provided for the safety of the equipment and wires 3) Proper earthing is maintained for protection from internal faults 4) Rotating parts are provided with guards 5) Speed limits are specified for rotating parts 6) A safe distance is maintained during operation of equipment 7) Vibrating elements are closely watched during operation to avoid excessive vibrations 8) CCTV surveillance is available 9) Supervised operation of equipment is ensured 10) Fire extinguisher is available at a common location in the department 11) First-aid kit is available at a common location in the department
9	Fluid Mechanics Laboratory	1) Do's and Don'ts statements and safety charts are displayed 2) MCBs are provided for the safety of the equipment and wires 3) Proper earthing is maintained for protection from internal faults 4) Rotating parts are provided with guards 5) Speed limits are specified for rotating parts 6) A safe distance is maintained during operation of equipment 7) The leakages in piping and valves are removed 8) Proper drainage & overflow arrangements are maintained in water tanks 9) Precautions are exercised during pump operation 10) Immediate stoppage of equipment is exercised in case of leakage, unusual noise, excessive vibration, or equipment failure 11) CCTV surveillance is available 12) Supervised operation of equipment is ensured 13) Fire extinguisher is available at a common location in the department 14) First-aid kit is available at a common location in the department
10	Thermodynamics Laboratory	1) Do's and Don'ts statements and safety charts are displayed 2) MCBs are provided for the safety of the equipment and wires 3) The students are instructed to wear a dress code with shoes. 4) Proper earthing is maintained for protection from internal faults 5) A safe distance is maintained during equipment operation 6) CCTV surveillance is available 7) Temperature limits displayed 8) Prior to handling equipment, a waiting time is kept for cooling 9) Fire extinguisher is available at a common location in the department 10) First-aid kit is available at a common location in the department
11	IC Engine Laboratory	1) Do's and Don'ts statements and safety charts are displayed 2) MCBs are provided for the safety of the equipment and wires 3) The students are instructed to wear a dress code with shoes. 4) Proper earthing is maintained for protection from internal faults 5) A safe distance is maintained during engine operation 6) CCTV surveillance is available 7) Temperature limits displayed 8) An exhaust gas extraction system exists 9) Fuel handling procedures are defined 10) Prior to handling engine, a waiting time is kept for cooling 11) Fire extinguisher is available at a common location in the department 12) First-aid kit is available at a common location in the department 13) Ear protection during machine operation is provided
12	Turbo Machinery Laboratory	1) Do's and Don'ts statements and safety charts are displayed 2) MCBs are provided for the safety of the equipment and wires 3) Proper earthing is maintained for protection from internal faults 4) Rotating parts are provided with guards 5) Speed limits are specified for rotating parts 6) A safe distance is maintained during operation of equipment 7) The leakages in piping and valves are removed 8) Proper drainage & overflow arrangements are maintained in water tanks 9) Precautions are exercised during pump operation 10) Immediate stoppage of equipment is exercised in case of leakage, unusual noise, excessive vibration, or equipment failure Supervised operation of equipment is ensured 11) CCTV surveillance is available 12) Fire extinguisher is available at a common location in the department 13) First-aid kit is available at a common location in the department

13	Metrology and Quality Control Laboratory	1) Do's and Don'ts statements and safety charts are displayed 2) MCBs are provided for the safety of the equipment and wires 3) Proper earthing is maintained for protection from internal faults 4) Careful handling of precision instruments is ensured 5) Gauges are stored in storage boxes 6) Regular cleaning of gauges & measuring instruments is carried out 7) CCTV surveillance is available 8) Fire extinguisher is available at a common location in the department 9) First-aid kit is available at a common location in the department
14	Industrial Fluid Power Laboratory	1) Do's and Don'ts statements and safety charts are displayed 2) MCBs are provided for the safety of the equipment and wires 3) Proper earthing is maintained for protection from internal faults 4) Supervised operation of equipment is ensured 5) The pneumatic & hydraulic systems are regularly inspected for leakages 6) CCTV surveillance is available 7) Fire extinguisher is available at a common location in the department 8) First-aid kit is available at a common location in the department
15	Engineering Drawing Hall	1) Do's and Don'ts statements and safety charts are displayed 2) MCBs are provided for the safety of the equipment and wires 3) Proper earthing is maintained for protection from internal faults 4) Safe handling of drawing models is ensured 5) Cleanliness is regularly maintained
16	Workshop	1) Do's and Don'ts statements and safety charts are displayed 2) MCBs are provided for the safety of the equipment and wires 3) Proper earthing is maintained for protection from internal faults 4) Rotating parts are provided with guards 5) The chuck key is removed from the machine before operation 6) A safe distance is maintained during operation of equipment 7) Ear protection during machine operation is provided 8) The students are instructed to wear a dress code with shoes 9) CCTV surveillance is available 10) Fire extinguisher is available 11) First-aid kit is available 12) Safe handling of cutting tools is ensured 13) Sharp tools are separately stored after use 14) Access control, machine interlocks to VMC, emergency stop are available on VMC machine 15) Guards on woodworking machines are provided in carpentry shop 16) Bench vices securely mounted in fitting shop 17) Safe handling of hacksaws, files and chisels are followed

D3. Project Laboratory/Research Laboratory

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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
2023-24(CAYm2)	300	15	7	5	44
2024-25(CAYm1)	300	15	5	5	33
2025-26(CAY)	420	21	8	13	43

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	22089680	24408852	26011680	20411704	18136680	21866516	17149680	19468132
Library	242000	1418062	1130000	880396	730000	288091	509000	373110
Laboratory equipment	12840000	8228365	6300000	8175894	7075000	8968357	3652000	10367112
Teaching and non-teaching staff salary	53780000	61372866	48995000	45553493	36920000	38667861	34930000	34299292
Outreach Programs	2200000	1013926	810000	172654	400000	991824	170000	558697
R&D	100000	833532	100000	98658	50000	60864	50000	68067
Training, Placement and Industry linkage	350000	1201443	300000	209316	150000	153442	50000	98980
SDGs	6075000	6770229	2862500	6767442	1767500	5126488	995000	1653793
Entrepreneurship	1500000	463226	350000	1929050	1300000	1444855	220000	1003068
Others, specify	7933760	12470483	9148000	13501976	6889500	12614830	3012500	8133719
Total	107110440	118180984	96007180	97700583	73418680	90183128	60738180	76023970

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	936514	800000	1034408	600000	427254	400000	338602
Software	75000	50987	50000	34440	50000	19012	30000	19148
SDGs	150000	223968	120000	125319	100000	117651	50000	3913

Support for faculty development	10000	7295	10000	6800	10000	3522	10000	36800
R & D	100000	253340	50000	28846	30000	4086	20000	5173
Industrial Training, Industry expert, Internship	150000	199989	100000	71740	50000	10301	30000	21742
Miscellaneous Expenses*	200000	182134	200000	445882	150000	277688	100000	196981
Total	1685000	1854227	1330000	1747435	990000	859514	640000	622359