

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 : 11945	Date of Submission : 10-07-2026

PART A- Profile of the Institute

A1.Name of the Institute : DHANEKULA INSTITUTE OF ENGINEERING & TECHNOLOGY	
Year of Establishment : 2009	Location of the Institute: 164686 N 807389 E
A2. Institute Address :DHANEKULA INSTITUTE OF ENGINEERING & TECHNOLOGY GANGURU VILLAGE PENAMALURU MANDALAM KRISHNA DISTRICT ANDHRA PRADESH	
City:Krishna	State:Andhra Pradesh
Pin Code:521139	Website:www.diet.ac.in
Email:principal@diet.ac.in	Phone No(with STD Code):-
A3. Name and Address of the Affiliating University (if any):	
Name of the University : JAWAHARLAL TECHNOLOGICAL UNIVERITY KAKINADA	City: Krishna
State : Andhra Pradesh	Pin Code: 521139
A4. Type of the Institution : Self-Supported Institute	
A5. Ownership Status : Self financing	

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

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

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

Sr.No.	Discipline	Level of program	Name of the program	Year of Start	Year of Closed	Name of The Department
1	Engineering & Technology	UG	Civil Engineering	2010	--	Civil Engineering
2	Engineering & Technology	UG	Computer Science and Engineering	2009	--	Computer Science and Engineering
3	Engineering & Technology	PG	Computer Science and Engineering	2012	--	Computer Science and Engineering
4	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	2021	--	Computer Science and Engineering (Artificial Intelligence and Machine Learning)
5	Engineering & Technology	UG	Computer Science and Engineering (Data Science)	2024	--	Computer Science and Engineering (Data Science)
6	Engineering & Technology	UG	Electrical and Electronics Engineering	2009	--	Electrical and Electronics Engineering
7	Engineering & Technology	UG	Electronics & Communication Engineering	2009	--	Electronics and Communication Engineering

8	Engineering & Technology	UG	Electronics and Communication Engineering (Industry Integrated)	2023	2026	Electronics and Communication Engineering (Industrial Integrated)
9	Engineering & Technology	PG	Environmental Engineering	2019	--	Civil Engineering
10	Engineering & Technology	UG	Information Technology	2019	2025	Information Technology
11	Engineering & Technology	UG	Mechanical Engineering	2009	--	Mechanical Engineering

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

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

Name of the Department	Having Allied Departments	Name of the Program	Program Level
Electrical and Electronics Engineering	No	Electrical and Electronics Engineering	UG
Mechanical Engineering	No	Mechanical Engineering	UG
Computer Science and Engineering (Artificial Intelligence and Machine Learning)	Yes	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	UG
Civil Engineering	No	Civil 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	2009 / --	60	Yes	2023	30	2023	South-Central/1-36944467193/2023/EOA	Granted accreditation for 3 years for the period (specify period)	2018	2025	2	4

Sanctioned Intake for Last Five Years for the Mechanical Engineering	
Academic Year	Sanctioned Intake
2025-26	30
2024-25	30
2023-24	30
2022-23	60
2021-22	60
2020-21	60

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 :	Dr. V. L. Krishnan
B. Nature of appointment:	Regular
C. Qualification:	Ph.D

B3. Program Details

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

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2025-26 (CAY)	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)	2021-22 (CAYm4)	2020-21 (CAYm5)	2019-20 (CAYm6)
N=Sanctioned intake of the program (as per AICTE /Competent authority)	30	30	30	60	60	60	90
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	18	17	7	0	2	26	16
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	11	26	10	18	29	26
N3=Separate division if any	0	0	0	0	0	0	0
N4=Total no. of students admitted in the 1st year via all supernumerary quotas	0	0	0	0	0	0	0
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	18	28	33	10	20	55	42

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

B4. Enrolment Ratio in the First Year

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

Year of entry	N (From Table 4.1)	N1 (From Table 4.1)	N4 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2025-26 (CAY)	30	18	0	60.00
2024-25 (CAYm1)	30	17	0	56.67
2023-24 (CAYm2)	30	7	0	23.33

Average [(ER1 + ER2 + ER3) / 3] = 46.67≅ 5.00

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).	66.00	66.00	99.00
B=No. of students who graduated from the program in the stipulated course duration	10.00	37.00	27.00

Success Rate (SR)= (B/A) * 100	15.15	56.06	27.27
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Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 32.83

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)	7.37	7.33	0.00
Y=Total no. of successful students	11.00	4.00	0.00
Z=Total no. of students appeared in the examination	17.00	7.00	0.00
API [X*(Y/Z)]	4.77	4.19	0.00

Average API[(AP1+AP2+AP3)/3] : 2.99

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)	7.57	7.77	7.39
Y=Total no. of successful students	30.00	10.00	17.00
Z=Total no. of students appeared in the examination	30.00	10.00	20.00
API [X * (Y/Z)]	7.57	7.77	6.28

Average API [(AP1 + AP2 + AP3)/3] : 7.21

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)
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)	7.44	7.43	7.72
Y=Total no. of successful students	10.00	16.00	54.00
Z=Total no. of students appeared in the examination	10.00	17.00	54.00
API [X*(Y/Z)]:	7.44	6.99	7.72

Average API [(AP1 + AP2 + AP3)/3] : 7.38

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	99.00
X=No. of students placed	11.00	27.00	19.00
Y=No. of students admitted to higher studies	0.00	6.00	1.00
Z= No. of students taking up entrepreneurship	0.00	0.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	16.67	50.00	20.20

Average Placement Index = (P_1 + P_2 + P_3)/3: 28.96 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	Dr. K. Ravi	XXXXXXX29D	Ph.D	Andhra University	Marine Engineering	19/06/2009	16.11	Professor	Professor	19/06/2009	Regular	Yes		No
2	Dr. V. L. Krishnan	XXXXXXX03F	Ph.D	IIT Roorkee	Industrial & Management	28/08/2023	2.9	Professor	Professor	28/08/2023	Regular	Yes		Yes
3	Dr. P Srinivasa Reddy	XXXXXXX65B	Ph.D	Andhra University	CAD/CAM	16/07/2025	0.10	Associate Professor	Associate Professor	16/07/2025	Regular	Yes		No
4	Dr. Chaparala Vidya	XXXXXXX00F	Ph.D	NIT AP	Thermal Engineering	17/07/2025	0.11	Associate Professor	Associate Professor	17/07/2025	Regular	No	02/07/2026	No
5	Mr. M Rama Gopal	XXXXXXX90B	M.Tech	JNTUK	Thermal Engineering	01/07/2019	6.11	Assistant Professor	Assistant Professor		Regular	Yes		No
6	Dr. Putti Venkata Siva Teja	XXXXXXX45N	Ph.D	Annamalai University	Computer Aided Design	17/05/2016	10	Assistant Professor	Associate Professor	01/06/2023	Regular	Yes		No
7	Mr. K Pavan Kumar	XXXXXXX99Q	M.Tech	Amrita Vishwa Vidyapeetham, Coimbatore	Manufacturing Engineering	28/11/2019	6.6	Assistant Professor	Assistant Professor		Regular	Yes		No
8	Mr. R Karun Kumar	XXXXXXX33E	M.Tech	JNTUK	Machine Design	07/06/2024	2	Assistant Professor	Assistant Professor		Regular	Yes		No
9	Mr. D. Bala Nagesh	XXXXXXX29D	M.E.	Andhra University	CAD/CAM	18/07/2009	16	Assistant Professor	Assistant Professor		Regular	No	16/07/2025	No
10	Mrs. K. Komali	XXXXXXX42M	M.Tech	Acharya Nagarjuna University	CAD/CAM	28/08/2023	2.9	Assistant Professor	Assistant Professor		Regular	Yes		No
11	Ms A H R Madhuri	XXXXXXX11L	M.Tech	JNTUK	Thermal Engineering	06/07/2023	2.9	Assistant Professor	Assistant Professor		Regular	No	30/04/2026	No
12	Dr. S. Ajaya Kumar	XXXXXXX45H	Ph.D	Osmania University	Production Engineering	21/07/2022	2	Associate Professor	Associate Professor	21/07/2022	Regular	No	31/07/2024	No
13	Dr. Ch Pavan Satyanarayana	XXXXXXX52E	Ph.D	VFSTR	Thermal Engineering	01/08/2022	2	Assistant Professor	Associate Professor	01/06/2023	Regular	No	31/07/2024	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	33	33	66
UG1.C	33	66	66
UG1.D	66	66	66
UG1: Mechanical Engineering	132	165	198
DS=Total no. of students in all UG and PG programs in the Department	132	165	198
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= 132	S2= 165	S3= 198
DF=Total no. of faculty members in the Department	10	9	10
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= 10	F2= 9	F3= 10
FF=The faculty members in F who have a 100% teaching load in the first-year courses	0	0	0
Student Faculty Ratio (SFR)=S/(F-FF)	SFR1= 13.20	SFR2= 18.33	SFR3= 19.80
Average SFR for 3 years	SFR= 17.11		

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)	5	5	6.00	29.17
2024-25(CAYm1)	3	6	8.00	16.88
2023-24(CAYm2)	5	5	9.00	19.44

C4. Faculty Cadre Proportion

- Faculty Cadre Proportion is 1(RF1): 2(RF2): 6(RF3)
- RF1= No. of Professors required = $1/9 \times$ 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
2025-26	1.00	2.00	1.00	3.00	4.00	5.00
2024-25	1.00	2.00	2.00	1.00	6.00	6.00
2023-24	1.00	2.00	2.00	3.00	7.00	5.00
Average	RF1=1.00	AF1=2.00	RF2=1.67	AF2=2.33	RF2=5.67	AF2=5.33

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	G Pavan Kumar	Sr. Test professional Engineer	Siemens Technologies and Services Pvt Limited	PLC programming for Industrial Automation	52.00
2	R Mahan SRK	Founder and CVO	Maramanishi Innovations Pvt. Ltd	Robotics and Embedded Systems	26.00
3	Abdul Naseer	Simulation Driven Development Engineer - 2	Watlow Thermal Solutions Pvt Ltd	CFD Simulation Techniques for Industrial Applications	28.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	J SriHarsha	Senior Design Engineer	ASquare Infotech Consultancy Pvt. Ltd., Hyderabad	CAD modelling and 3D Printing	36.00
2	Likhith Sai Gopal B	Robotics Engineer (Mech)	HackBoats	Autonomous Marine Robotics & Surface Vehicles	18.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Srinivas K	Robotics Software Engineer	HackBoats	ROS (Robot Operating System) for Autonomous Navigation	30.00
2	Vishal Kumar M	Robotics Chip-level Engineer	HackBoats	Embedded Hardware & PCB Design for Marine Systems	30.00

C6. Academic Research

Table No. C6.1: Faculty publication details.

S.No.	Item	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)
1	No. of peer reviewed journal papers published	7	6	5
2	No. of peer reviewed conference papers published	4	4	3
3	No. of books/book chapters published	4	2	4

C7. Sponsored Research Project

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

(CAYm1)

(CAYm2)

(CAYm3)

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

Note*:

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

C8. Consultancy Work

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

(CAYm1)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr. V L Krishnan	Dr. P V Siva Teja	Mechanical Engineering	Design & Development of Industrial Automated Conveyor & Sorting System	HackBoats	2 Years	4.50
						Amount received (Rs.):4.50

(CAYm2)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr. S Ajaya Kumar	Dr. V L Krishnan	Mechanical Engineering	Performance Investigation and Optimization of UAV Propulsion Systems	Optronics Engineering	01 year	3.20
Dr. Kadiyala Ravi	Dr. CH Pavan Satyanarayana	Mechanical Engineering	Design & Development of Automated Hydraulic Press with Intelligent Process Monitoring	HackBoats	2 Years	5.00
						Amount received (Rs.):8.20

(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. O Srikanth	Mr. D Bala Nagesh	Mechanical Engineering	Autonomous Industrial Material Handling Robot (AMR)	HackBoats	2 Years	5.50
						Amount received (Rs.):5.50

Total amount (Lacs) received for the past 3 years: 18.20

Note*:

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

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

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

(CAYm1)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Dr V L Krishnan	Development of a Digital Twin for Real-Time Monitoring and Control of a Robotic Manipulator	6 Months	0.40	0.40	Published a Paper
			Amount received (Rs.): 0.40		

(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 P V Sivateja	Multi Wrench Tool	3 Months	1.00	0.70	Published a Patent
			Amount received (Rs.): 1.00		

(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
Dr O Srikanth	Basic Civil and Mechanical Engineering	6 Months	0.80	0.50	Published a Book
			Amount received (Rs.): 0.80		

Total amount (Lacs) received for the past 3 years : 2.20

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	Engineering Workshop Lab	3	1.Carpentry vices 2.Bench vices 3.Motor blower 4.Bench grinder 5.Shearing machine 6.Swage block 7. Angle 8. Portable drill 9. Milling machine 10. Lathe	18hrs/week	Mr. M.Nagaraju	Lab Technician	B. Tech
2	CAD/CAM Lab	3	1.Intel i5 7 generation core processor, 1TB Hard disk, 8GB RAM, 2 GB NVIDIA graphics card, 64 bit Windows operating system 2. Auto cad software	6hrs/week	Mr. K. Suresh	Lab Technician	DME
3	Metallurgy Lab	3	1.Monocular, binocular, trinocular metallurgical microscope 2.Muffle furnace 3.Double disk polishing machine 4. Polishing cloth 5. Brass wire cutting machine	3hrs/week	Mr. M.Nagaraju	Lab Technician	B. Tech
4	Production Technology Lab	3	1.Wood working lathe machine 2.Spot welding equipment 3.Manual metal arc welding equipment 4. Gas welding equipment 5. TIG welding equipment	3hrs/week	Mr. L. V. S. Rajesh	Lab Technician	ITI
5	Thermal Engineering lab	3	1.4 Stroke diesel engine cut section model 2.4 Stroke petrol engine cut section model 3.2 Stroke petrol engine cut section model 4. Multi cylinder 4 stroke	3hrs/week	Mr. S. Venkata Rao	Lab Technician	DME
6	Machine Tools Lab	3	1.Lathe machines 2.Capstan lathe 3.Shaping machine 4.Slotting machine 5.Universal milling machine 6. Power hacksaw machine 7. Surface grinding	3hrs/week	Mr. L. V. S. Rajesh	Lab Technician	ITI
7	Metrology & Instrumentation Lab	3	1.Vernier calipers 2.Micrometers 3.Dial bore indicators 4.Gear tooth Vernier calipers 5.Bevel protractor 6.Sine bar 7. Carbide level 8. Surface plate 9. G.R.Vernier	3hrs/week	Mr. K. Suresh	Lab Technician	DME
8	Heat Transfer Lab	3	1.Parallel flow/counter flow heat exchanger Apparatus 2.Critical Heat Flux Apparatus 3.Emissivity measurement apparatus 4.Heat Transfer through Di	3hrs/week	Mr. S. Venkata Rao	Lab Technician	DME
9	Theory of Machine Lab	3	1.Whirling of shaft apparatus 2.Universal governor apparatus 3.Motorised gyroscope 4.Equivalent spring mass system 5. Forced vibration 6. Static 8	3hrs/week	Mr. M.Sateesh	Lab Technician	B. Tech
10	Mechatronics Lab	3	1.Automation studio software version 2.Automation Studio Interface Kit 3.PLC Siemens Programming System with 40 static applications 4. SIMATIC 1750	3hrs/week	Mr. K. Suresh	Lab Technician	DME
11	Engineering Mechanics Lab	3	1.Polygon law of force apparatus 2.Combined inclined plane & Friction Apparatus 3.Centre of Gravity Apparatus 4.Simple Connected Beam Apparatus	3hrs/week	Mr. S. Venkata Rao	Lab Technician	DME

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures

1	Engineering Work Shop	1. General conduct and safety rules displayed. 2. A, B and C type fire extinguishers provided as applicable. 3. First-aid kit available. 4. Damaged equipment is avoided and needful equipment/components are provided. 5. Hand gloves for blacksmithy work. 6. Sand buckets available.
2	CAD/CAM Lab	1. General conduct and safety rules displayed. 2. B and C type fire extinguisher provided. 3. UPS provided independently. 4. External devices are not connected without scanning. 5. All the major equipment is provided with proper earthing.
3	Metallurgy Lab	1. Laboratory safety rules displayed. 2. Damaged equipment is avoided and needful equipment/components are provided. 3. Hand gloves provided for furnace operation. 4. All the major equipment is provided with proper earthing.
4	Production Technology Lab	1. General conduct and safety rules displayed. 2. A, B and C type fire extinguishers provided as applicable. 3. First-aid kit available. 4. Damaged equipment/components are not used. 5. Welding gloves, goggles and shield provided. 6. Pedestrian floor markings provided. 7. Sand buckets available. 8. All the major equipment is provided with proper earthing.
5	Thermal Engineering Lab	1. General conduct and safety rules displayed. 2. A, B and C type fire extinguishers provided as applicable. 3. First-aid kit available. 4. Damaged equipment/components are not used. 5. Safety guard provided for reciprocating air compressor. 6. Pedestrian floor markings provided. 7. All the major equipment is provided with proper earthing.
6	Machine Tools Lab	1. General conduct and safety rules displayed. 2. A, B and C type fire extinguishers provided as applicable. 3. First-aid kit available. 4. Belt-drive protecting guard provided for planer machine. 5. Chip collecting tray provided for lathe. 6. Protecting shield provided for grinding machine. 7. Pedestrian floor markings provided. 8. All the major equipment is provided with proper earthing.
7	Metrology & Instrumentation Lab	1. General conduct and safety rules displayed. 2. B and C type fire extinguisher provided. 3. Damaged equipment/components are not used; needful equipment/components are provided. 4. All the major equipment is provided with proper earthing.
8	Heat Transfer Lab	1. General conduct and safety rules displayed. 2. B and C type fire extinguisher provided. 3. Damaged equipment/components are not used; needful equipment/components are provided. 4. All the major equipment is provided with proper earthing.
9	Theory of Machines Lab	1. General laboratory safety rules and equipment-specific operating instructions are displayed. 2. Power supply is switched OFF and all rotating components are allowed to come to a complete stop before adjustment or measurement. 3. B and C type fire extinguisher provided. 4. Damaged equipment/components are not used; needful equipment/components are provided. 5. All the major equipment is provided with proper earthing.
10	Mechatronics Lab	1. General conduct and safety rules displayed. 2. B and C type fire extinguisher provided. 3. External devices are not connected without scanning. 4. Electrical/control components of the PLC-based water-level system are protected from moisture, and electrical connections should not be handled with wet hands. 5. All the major equipment is provided with proper earthing.
11	Engineering Mechanics Lab	1. General laboratory safety rules are prominently displayed. 2. Laboratory housekeeping, safe spacing and proper storage of weights/apparatus are maintained to prevent trips and accidental impacts. 3. First-aid facilities and emergency instructions are maintained.

D3. Project Laboratory/Research Laboratory

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)	720	36	31	22	81
2024-25(CAYm1)	840	42	39	22	85
2025-26(CAY)	840	42	40	23	87

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	9000000	8480068	950000	946973	2500000	2449823	6500000	6195527
Library	300000	271195	1000000	954304	800000	785638	250000	236611
Laboratory equipment	25000000	24540682	4500000	4160098	15000000	14439749	10000000	9370933
Teaching and non-teaching staff salary	123500000	123493790	107000000	106585870	80000000	74886650	82000000	79538032
Outreach Programs	71000	71907	36000	30435	71000	72362	36000	37812
R&D	250000	234288	250000	211223	200000	177150	100000	50000
Training, Placement and Industry linkage	7500000	7012923	2200000	2120638	4500000	4281081	2000000	1581287
SDGs	1000000	772448	250000	226559	200000	199932	150000	136559
Entrepreneurship	500000	459691	15000	14190	50000	0	50000	0
Others, specify	70000000	65579928	85000000	78942364	75000000	73682743	65000000	59187481

Total	237121000	230916920	201201000	194192654	178321000	170975128	166086000	156334242
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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 	160000	155131	200000	188631	65000	60973	30000	27333
Software 	0	0	0	0	0	0	0	0
SDGs 	500000	479474	60000	56292	35000	34340	30000	27494
Support for faculty development 	10000	0	10000	0	10000	0	10000	0
R & D 	15000	12000	15000	14000	15000	11000	10000	0
Industrial Training, Industry expert, Internship 	50000	50000	50000	50000	65000	60000	65000	60000
Miscellaneous Expenses* 	7862000	7345814	8365000	8144184	8630000	8448957	10270000	8448957
Total	8597000	8042419	8700000	8453107	8820000	8615270	10415000	8563784