

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 : 11984	Date of Submission : 25-06-2026

PART A- Profile of the Institute

A1.Name of the Institute : Bishop Jerome Institute	
Year of Establishment : 2010	Location of the Institute: Kollam
A2. Institute Address : Bishop Jerome Institute Fatima College Road	
City: Quilon	State: Kerala
Pin Code: 691001	Website: www.bji.ac.in
Email: bji@bji.ac.in	Phone No(with STD Code): 0474-2764053
A3. Name and Address of the Affiliating University (if any):	
Name of the University : APJ Abdul Kalam Technological University	City: Thiruvananthapuram
State : Kerala	Pin Code: 695016
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: **8**
- 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	Architecture	UG	Architecture	2010	--	Architecture
2	Engineering & Technology	UG	Civil Engineering	2010	--	Civil Engineering
3	Engineering & Technology	UG	Computer Science and Engineering	2023	--	Computer Science and Engineering
4	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence)	2024	--	Computer Science and Engineering
5	Engineering & Technology	UG	Computer Science and Engineering (Data Science)	2023	--	Computer Science and Engineering
6	Engineering & Technology	UG	Electrical and Electronics Engineering	2010	--	Electrical and Electronics Engineering
7	Engineering & Technology	UG	ELECTRONICS AND COMMUNICATION ENGINEERING	2010	--	Electronics and Communication Engineering
8	Engineering & Technology	UG	Mechanical Engineering	2010	--	Mechanical Engineering
9	Management	PG	Master of Business Administration	2010	--	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

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/COMPE AUTHORITY A DETAILS
1	Mechanical Engineering	UG	2010 / --	60	Yes	2024	30	2024	F.No. South-We 43662459699/2

Sanctioned Intake for Last Five Years for the Mechanical Engineering

Academic Year	Sanctioned Intake
2025-26	30
2024-25	30
2023-24	60
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. Abhishek P
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	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	30	30	23	25	44	30	31
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	1	3	1	0	0	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	2	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.	32	31	26	26	44	30	31

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	30	2	106.67
2024-25 (CAYm1)	30	30	0	100.00
2023-24 (CAYm2)	60	23	0	38.33

Average [(ER1 + ER2 + ER3) / 3] = 81.67≅ 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).	60.00	60.00	60.00
B=No. of students who graduated from the program in the stipulated course duration	20.00	19.00	26.00
Success Rate (SR)=(B/A) * 100	33.33	31.67	43.33

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 36.11

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)	7.99	6.69	7.28
Y=Total no. of successful students	22.00	22.00	24.00
Z=Total no. of students appeared in the examination	30.00	23.00	25.00
API [X*(Y/Z)]	5.86	6.40	6.99

Average API[(AP1+AP2+AP3)/3] : 6.42

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

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

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 2nd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2nd year/10)	6.81	7.16	6.60
Y=Total no. of successful students	22.00	25.00	28.00
Z=Total no. of students appeared in the examination	25.00	25.00	29.00
API [X * (Y/Z)]	5.99	7.16	6.37

Average API [(AP1 + AP2 + AP3)/3] : 6.51

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)	7.00	6.84	6.91
Y=Total no. of successful students	25.00	40.00	29.00
Z=Total no. of students appeared in the examination	25.00	40.00	29.00
API [X*(Y/Z)]:	7.00	6.84	6.91

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

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	60.00	60.00	60.00
X=No. of students placed	29.00	20.00	15.00
Y=No. of students admitted to higher studies	1.00	6.00	9.00
Z= No. of students taking up entrepreneurship	2.00	0.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	53.33	43.33	40.00

Average Placement Index = (P_1 + P_2 + P_3)/3: 45.55 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)	Cur Ass (Y/N)
1	Dr. Kim J Seelan	XXXXXXX04C	Ph.D	Noorul Islam Centre for Higher Education	Advanced Manufacturing Technology	04/09/2023	2.9	Professor	Professor	04/09/2023	Regular	Yes
2	Dr D Roshan Kumar	XXXXXXX88J	Ph.D	IIT Madras	Experimental and Numerical Investigations on Dynamic Compaction of Metal Powders	01/06/2016	9	Professor	Professor	01/06/2016	Regular	No
3	Dr. Abhishek P	XXXXXXX44A	Ph.D	APJ Abdul Kalam Technological University	Solar Adsorption Desalination System	11/06/2012	14	Assistant Professor	Associate Professor	10/01/2024	Regular	Yes
4	Arunima Krishnan	XXXXXXX50P	M.Tech	M G University	Industrial Engineering and Management	18/10/2010	15.8	Assistant Professor	Associate Professor	10/01/2024	Regular	Yes
5	Bejoy S	XXXXXXX61C	M.Tech	University of Kerala	Industrial Refrigeration and Cryogenic Engineering	28/06/2012	13.11	Assistant Professor	Associate Professor	10/01/2024	Regular	Yes
6	Laiju Thankachan T	XXXXXXX71P	M.E.	PRIST University	Manufacturing Engineering	07/01/2013	13.5	Assistant Professor	Assistant Professor		Regular	Yes
7	Tony John	XXXXXXX43E	M.Tech	University of Kerala	Industrial Refrigeration and Cryogenic Engineering	27/06/2013	12.11	Assistant Professor	Assistant Professor		Regular	Yes
8	Nevin Nelson	XXXXXXX01H	M.Tech	CUSAT	Computer Aided Structural Analysis and Design	02/06/2014	11.7	Assistant Professor	Assistant Professor		Regular	No
9	Dhaneesh R I	XXXXXXX77A	M.Tech	University of Kerala	Industrial Refrigeration and Cryogenic Engineering	10/08/2018	7.10	Assistant Professor	Assistant Professor		Regular	Yes
10	Rony Mohan	XXXXXXX99M	M.Tech	M G University	Production and Industrial Engineering	08/08/2018	7.10	Assistant Professor	Assistant Professor		Regular	Yes
11	Vighnesh Raj	XXXXXXX65Q	M.Tech	APJ Abdul Kalam Technological University	Computer Integrated Manufacturing	05/08/2019	5.4	Assistant Professor	Assistant Professor		Regular	No
12	Kevin Francis	XXXXXXX07M	M.Tech	APJ Abdul Kalam Technological University	Computer Integrated Manufacturing	18/10/2022	3.8	Assistant Professor	Assistant Professor		Regular	No
13	Lijin Thomas	XXXXXXX73N	M.Tech	Visvesvaraya Technological University	Manufacturing Science and Engineering	17/10/2022	0.9	Assistant Professor	Assistant Professor		Regular	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	31	63	61
UG1.C	63	61	60
UG1.D	61	60	60
UG1: Mechanical Engineering	155	184	181
DS=Total no. of students in all UG and PG programs in the Department	155	184	181
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= 155	S2= 184	S3= 181
DF=Total no. of faculty members in the Department	9	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= 9	F2= 11	F3= 11
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= 17.22	SFR2= 16.73	SFR3= 16.45
Average SFR for 3 years	SFR= 16.80		

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	7	7.00	17.14
2024-25(CAYm1)	2	9	9.00	15.56
2023-24(CAYm2)	1	10	9.00	13.89

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	1.00	2.00	1.00	5.00	7.00
2024-25	1.00	2.00	2.00	0.00	6.00	9.00
2023-24	1.00	1.00	2.00	0.00	6.00	10.00
Average	RF1=1.00	AF1=1.33	RF2=2.00	AF2=0.33	RF2=5.67	AF2=8.67

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)

(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	0	1	0
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)

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
						Amount received (Rs.):0

Total amount (Lacs) received for the past 3 years: 0**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.ABHISHEK P	Design Development And Performance Analysis Of Modified Solar Cookers	1 year	1.00	1.00	Project Development
			Amount received (Rs.): 1.00		

(CAYm2)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Arunima Krishnan	Fabrication Of Scavenger robot With Three Axis Robotic Arm	1 year	0.70	0.70	Project Development
			Amount received (Rs.): 0.70		

(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
Mr. Rony Mohan	Walnut Shell Powdered Reinforced Sustainable Breaking Composites	1 year	1.25	1.25	Project Development
			Amount received (Rs.): 1.25		

Total amount (Lacs) received for the past 3 years : 2.95

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	Mechanical Workshop	1	1.Fittingsection-12 Nos 2.Carpentry Section-12Nos 3. FoundrySection-12Nos 4. SmithySection-12Nos 5.	6 hrs.	Justin Joseph	Lab Instructor	ITI in Fitter
2	Mechanical Engineering Lab	1	1. Whirling of Shaft Apparatus 2. Forced and Free Vibration Apparatus 3. D. Balance 4.	3 hrs.	Johnson S	Lab Instructor	ITI in Turner
3	Machine Tools Lab	1	1.HorizontalLathes-17 Nos.(stock 19) 2. Horizontal Milling Machine 4Nos. 3. Shaper 2Nos. 4. Radial	6 hrs.	Leens D'cruz	Lab Instructor	ITI in Turner
4	FM & HM Lab	6	1. Rectangular & V Notch Apparatus. -1No. 2. Orifices & Mouth Piece Apparatus 4No.	9 hrs.	Yesudas . M.	Lab Instructor	Diploma in M
5	Thermal Engineeringg Lab -1	6	1.Single cylinder air cooled engine Test Rig – 1No. 2.Twin cylinder Diesel Engine Test Rig 4No. 3.Corn	3 hrs.	Yesudas . M.	Lab Instructor	Diploma in M
6	Thermal Engineeringg Lab -2	3	1. Parallel Flow / Counter Flow Heat Exchanger 2. Forced Convection Apparatus 3. Natural Convection	3 hrs.	Johnson S	Lab Instructor	ITI in Turner
7	ME CAD Lab	1	Desktop Machines- 48 Nos.	3 hrs.	Yesudas . M.	Lab Instructor	Diploma in M
8	CNC Lab	1	1. CNC Lathe GD Willer Simens Controller 828 D 2.CNC Vertical Milling Machine (DMU Form C)	3hrs.	Johnson S	Lab Instructor	ITI in Turner

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Mechanical Workshop	1. Firefighting equipment is provided inside or near the lab. 2. First Aid Box is provided within the lab. 3. Proper dress code is made compulsory. 4. Safety instructions are displayed. 5. Racks are provided for keeping student belongings. 6. Wash room is provided 7. Goggles are provided wherever necessary 8. Students LOGIN details are registered 9. Name of the machines are displayed 10. Technical specifications of the machines are displayed
2	Mechanical Engineering Lab	1. Firefighting equipment is provided inside or near the lab. 2. First Aid Box is provided within the lab. 3. Proper dress code is made compulsory. 4. Safety instructions are displayed. 5. Racks are provided for keeping student belongings. 6. Wash room is provided 7. Goggles are provided wherever necessary 8. Students LOGIN details are registered 9. Name of the machines are displayed 10. Technical specifications of the machines are displayed

3	Machine Tool Lab	1. Firefighting equipment is provided inside or near the lab. 2. First Aid Box is provided within the lab. 3. Proper dress code is made compulsory. 4. Safety instructions are displayed. 5. Racks are provided for keeping student belongings. 6. Wash room is provided 7. Goggles are provided wherever necessary 8. Students LOGIN details are registered 9. Name of the machines are displayed 10. Technical specifications of the machines are displayed
4	FM & HM Lab	1. Firefighting equipment is provided inside or near the lab. 2. First Aid Box is provided within the lab. 3. Proper dress code is made compulsory. 4. Safety instructions are displayed. 5. Racks are provided for keeping student belongings. 6. Wash room is provided 7. Goggles are provided wherever necessary 8. Students LOGIN details are registered 9. Name of the machines are displayed 10. Technical specifications of the machines are displayed
5	Thermal Engineering Lab-I	1. Firefighting equipment is provided inside or near the lab. 2. First Aid Box is provided within the lab. 3. Proper dress code is made compulsory. 4. Safety instructions are displayed. 5. Racks are provided for keeping student belongings. 6. Wash room is provided 7. Goggles are provided wherever necessary 8. Students LOGIN details are registered 9. Name of the machines are displayed 10. Technical specifications of the machines are displayed
6	Thermal Engineering Lab-2	1. Firefighting equipment is provided inside or near the lab. 2. First Aid Box is provided within the lab. 3. Proper dress code is made compulsory. 4. Safety instructions are displayed. 5. Racks are provided for keeping student belongings. 6. Wash room is provided 7. Goggles are provided wherever necessary 8. Students LOGIN details are registered 9. Name of the machines are displayed 10. Technical specifications of the machines are displayed
7	ME CAD Lab	1. Firefighting equipment is provided inside or near the lab. 2. First Aid Box is provided within the lab. 3. Proper dress code is made compulsory. 4. Safety instructions are displayed. 5. Racks are provided for keeping student belongings. 6. Wash room is provided 7. Students LOGIN details are registered 8. Name of the machines are displayed 9. Technical specifications of the machines are displayed
8	CNC Lab	1. Firefighting equipment is provided inside or near the lab. 2. First Aid Box is provided within the lab. 3. Proper dress code is made compulsory. 4. Safety instructions are displayed. 5. Racks are provided for keeping student belongings. 6. Wash room is provided 7. Goggles are provided wherever necessary 8. Students LOGIN details are registered 9. Name of the machines are displayed 10. Technical specifications of the machines are displayed

D3. Project Laboratory/Research Laboratory

List of Project Laboratory.

S.N.	Name of the Laboratory	Facilities
1.	Project Arena	Work Stations (3Nos) 3D Printer Portable Drilling Machine Raspberry Pi Anemometer Tachometer Thermocouple IR Thermometer Multimeter Voltage Source Soldering iron Tool kit Micro grinder Micrometer Vernier Caliper
2.	Simulation Centre	32 PCs with Connectivity On Shape Access AUTOCAD Access Air Conditioned Space Printer

List of Research laboratory.

S.N.	Name of the Laboratory	Facilities
1.	Solar Research Centre	Solar weather Station, Equipment for measuring day to day weather condition
2.	Garage Lab	Dune Buggy/ Go- Kart/ UTV/ ATV Fabrication and Maintenance Station Complete socket sets, Torque wrenches, Screwdrivers, Plier Set, Micrometers, Vernier Calipers, Feeler Gauges, Air compressor, Battery chargers/analyzers

List of Centre of Excellence

S.N.	Name of the Laboratory	Facilities
1.	Refrigeration And Air -Conditioning Test Rig	A test Rig facility for Refrigeration, Air-conditioning and HVAC Applications. Can be utilized as a center for Internship purpose

Project Arena

A project laboratory is equipped with the necessary instruments such as,

- Portable Drilling Machine, Micro grinder and Tool kit for basic mechanical operations.
- Raspberry Pi, Multimeter, Soldering iron and Voltage Source for circuitry project works.
- Anemometer, Tachometer, Thermocouple and IR Thermometer for measurement purposes.
- Micrometer and Vernier Caliper for precise measurement purposes.
- Work Stations (3Nos)
- 3D Printer
- Tool kit

This area is intended strictly for the project activities in curriculum. Students can access the project arena with the intension of modeling, design, fabrication, measurement, result tabulation, discussion, maintenance assistance, finishing, validation and documentation purposes.

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)	360	18	5	24	49
2024-25(CAYm1)	330	16	5	30	62
2025-26(CAY)	330	16	9	31	84

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 	17850000	22566147	10800000	12441025	5950000	7303016	3100000	3687926
Library 	250000	156508	175000	131537	70000	60261	500000	632004
Laboratory equipment 	200000	212900	70000	10030	90000	85356	600000	764574
Teaching and non-teaching staff 	35800000	39316562	37600000	37254313	35600000	36928378	34900000	36327358
Outreach Programs 	95000	10000	70000	10000	70000	10000	30000	21200
R&D 	350000	200000	350000	330630	350000	280000	350000	125000
Training, Placement and 	1150000	1465093	725000	655171	350000	262421	1250000	1310654
SDGs 	375000	252026	1000000	1076886	370000	375556	475000	549824
Entrepreneurship 	225000	59350	35000	5000	30000	5000	60000	5000
Others, specify 	10040000	19875055	20500000	25205726	23150000	24607722	13150000	24330896
Total	66335000	84113641	71325000	77120318	66030000	69917710	54415000	67754436

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	1081960	5000	3750	5000	3600	5000	8000
Software 	100000	0	100000	0	100000	0	100000	0
SDGs 	200000	135288	200000	474458	150000	175249	100000	85455
Support for faculty development 	10000	8500	10000	5000	10000	6500	10000	9500
R & D 	100000	60000	100000	100000	100000	70000	100000	125000
Industrial Training, Industry expert, 	30000	32000	30000	168110	20000	15350	20000	17500
Maintenance, Consumables etc. 	50000	65553	50000	18998	50000	45060	50000	45159
Total	1490000	1383301	495000	770316	435000	315759	385000	290614