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: 11446	**Date of Submission**: 05-01-2026

PART A- Profile of the Institute

A1.Name of the Institute: Parala Maharaja Engineering College	
Year of Establishment : 2009	Location of the Institute: Berhampur
A2. Institute Address:Parala Maharaja Engineering College, Sitallapalli, Berhampur, Ganjam Odisha.	
City:Ganjam	State:Odisha
Pin Code:761003	Website:www.pmec.ac.in
Email:admin@pmec.ac.in	Phone No(with STD Code):-
A3. Name and Address of the Affiliating University (if any):	
Name of the University : BPUT	City: Sundergarh
State : Odisha	Pin Code: 769015
A4. Type of the Institution: Government Institute	
A5. Ownership Status: State Government	

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

- No. of UG programs: **8**
- No. of PG programs: **5**

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	Automobile Engineering	2014	--	Automobile Engineering
2	Engineering & Technology	UG	Chemical Engineering	2015	--	Chemical Engineering
3	Engineering & Technology	UG	Civil Engineering	2009	--	Civil Engineering
4	Engineering & Technology	UG	Computer Science and Engineering	2009	--	Computer Science and Engineering
5	Engineering & Technology	UG	Electrical Engineering	2009	--	Electrical Engineering
6	Engineering & Technology	UG	Electronics and Telecommunication Engineering	2014	--	Electronics and Telecommunication Engineering
7	Engineering & Technology	UG	Mechanical Engineering	2009	--	Mechanical Engineering
8	Engineering & Technology	PG	Mechanical System Design	2014	--	Mechanical Engineering
9	Engineering & Technology	UG	Metallurgical & Materials Engineering	2015	--	Metallurgical and Materials Engineering
10	Engineering & Technology	PG	Power Systems Engineering	2015	--	Electrical Engineering
11	Engineering & Technology	PG	Production Engineering	2015	--	Mechanical Engineering
12	Engineering & Technology	PG	Structural Engineering	2015	--	Civil Engineering

13	Engineering & Technology	PG	Thermal Engineering	2015	--	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
Mechanical Engineering	Yes	Mechanical Engineering	UG

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

Allied Department/Cluster Name	Program Name	Program Level
Automobile Engineering	Automobile Engineering	UG

PART-B: Program information

B1. Provide the Required Information for the Program Applied For:

Table No. B1: Program details.
A. List of the Programs Offered by the Department:

SR.NO.	PROGRAM NAME	PROGRAM APPLIED LEVEL	YEAR OF START / YEAR OF CLOSED	SANCTIONED INTAKE	INCREASE/DECREASE INTAKE (if any)	YEAR OF INCREASE/DECREASE	CURRENT INTAKE	YEAR OF AICTE APPROVAL	AICTE/COMPETENT AUTHORITY ARROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROG DURA
1	Mechanical Engineering	UG	2009 / --	60	Yes	2014	120	2014	F. No. Eastern/1-2013097122/2014/EOA	Not accredited (specify visit dates, year)	15/11/2019	17/11/2019	0	4

List of the Allied Departments/Cluster and Programs:

SR.NO.	ALLIED DEPARTMENT NAME	PROGRAM NAME	PROGRAM APPLIED LEVEL	YEAR OF START / YEAR OF CLOSED	SANCTIONED INTAKE	INCREASE/DECREASE INTAKE (if any)	YEAR OF INCREASE/DECREASE	CURRENT INTAKE	YEAR OF AICTE APPROVAL	AICTE/COMPETENT AUTHORITY ARROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROGRAM DURATIO
1	Automobile Engineering	Automobile Engineering	UG	2014 / --	60	Yes	2022	30	2022	Eastern/1-10981315593/2022/EOA, Date: 03-Jul-2022	Not accredited (specify visit dates, year)	--	--	0	4

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

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

A. Name of the HoD :	Prof. Trilochan Rout
B. Nature of appointment:	Regular
C. Qualification:	Ph.D

B3. Program Details

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

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2025-26 (CAY)	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)	2021-22 (CAYm4)	2020-21 (CAYm5)	2019-20 (CAYm6)
N=Sanctioned intake of the program (as per AICTE /Competent authority)	120	120	120	120	120	120	120
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	141	124	62	42	81	105	87
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	32	84	91	50	21	58
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	10	5	10	3	0	0	0
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	151	161	156	136	131	126	145

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

B4. Enrolment Ratio in the First Year

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

Year of entry	N (From Table 4.1)	N1 (From Table 4.1)	N4 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2025-26 (CAY)	120	141	10	125.83
2024-25 (CAYm1)	120	124	5	107.50
2023-24 (CAYm2)	120	62	10	60.00

Average [(ER1 + ER2 + ER3) / 3] = 97.78≡ 20.00

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

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

Item	(2021-22) LYG	(2020-21) LYGm1	(2019-20) LYGm2
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).	131.00	126.00	145.00
B=No. of students who graduated from the program in the stipulated course duration	109.00	110.00	126.00
Success Rate (SR)= (B/A) * 100	83.21	87.30	86.90

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 85.80

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)
Mean of CGPA or mean percentage of all successful students(X)	6.12	6.78	6.62
Y=Total no. of successful students	121.00	71.00	45.00
Z=Total no. of students appeared in the examination	121.00	71.00	45.00
API [X*(Y/Z)]	6.12	6.78	6.62

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

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)	6.32	6.72	6.72
Y=Total no. of successful students	145.00	135.00	124.00
Z=Total no. of students appeared in the examination	155.00	136.00	124.00
API [X * (Y/Z)]	5.91	6.67	6.72

Average API [(AP1 + AP2 + AP3)/3] : 6.43

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)	7.15	7.22	7.35
Y=Total no. of successful students	134.00	124.00	123.00
Z=Total no. of students appeared in the examination	135.00	124.00	123.00
API [X*(Y/Z)]:	7.10	7.22	7.35

Average API [(AP1 + AP2 + AP3)/3] : 7.22

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	170.00	141.00	178.00
X=No. of students placed	97.00	102.00	94.00
Y=No. of students admitted to higher studies	1.00	7.00	3.00
Z= No. of students taking up entrepreneurship	0.00	0.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	57.65	77.30	54.49

Average Placement Index = (P_1 + P_2 + P_3)/3: 63.15 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	Prof. Trilochan Rout	XXXXXXX73C	Ph.D	NIT Rourkela	Machine Design(Structural Vibration)	27/04/2012	13.8	Assistant Professor	Professor	27/04/2020	Regular	Yes		Yes
2	Mr. Aditya Kumar Patra	XXXXXXX57E	M.Tech	KIIT Bhubaneswar	Manufacturing Process And System	02/03/2012	13.8	Professor	Assistant Professor		Regular	No	31/10/2025	No
3	Mr. Jayanarayan Mahakud	XXXXXXX01E	M.Tech	NIT Silchar	Thermal Engg.	04/10/2010	15.3	Assistant Professor	Assistant Professor		Regular	Yes		No
4	Mrs. Anukampa Chau Pattnaik	XXXXXXX83L	M.Tech	SOA, Bhubaneswar	Thermal Engg.	06/10/2010	15.2	Assistant Professor	Assistant Professor		Regular	Yes		No
5	Ms. Baisalini Sethi	XXXXXXX54C	M.Tech	IIT Guwahati	Fluid And Thermal Engg	14/10/2014	11.2	Assistant Professor	Assistant Professor		Regular	Yes		No
6	Mr. Kashinath Dhamudia	XXXXXXX02F	M.Tech	NIT Trichy	Thermal Engg.	20/10/2014	11.2	Assistant Professor	Assistant Professor		Regular	Yes		No
7	Mr. B.Durga Rao	XXXXXXX87B	M.Tech	IIT Guwahati IIT KGP	CAM	21/10/2014	11.2	Assistant Professor	Assistant Professor		Regular	Yes		No
8	Dr. Kanchan Kumari	XXXXXXX48L	Ph.D	IIT KGP	Production Engineering	24/11/2014	11.1	Assistant Professor	Assistant Professor		Regular	Yes		No
9	Dr. Balaji Kumar Choudhury	XXXXXXX20E	Ph.D	NIT Rourkela	Thermal Engg.	22/11/2016	9.1	Assistant Professor	Assistant Professor		Regular	Yes		No
10	Lt. Sandeep Bhoi	XXXXXXX86J	M.Tech	IIT BHU	Machine Design	14/12/2016	9	Assistant Professor	Assistant Professor		Regular	Yes		No
11	Mr. Sagar Kumar Murmu	XXXXXXX92K	M.Tech	NIT Trichy	Welding Engg.	28/11/2016	9.1	Assistant Professor	Assistant Professor		Regular	Yes		No
12	Dr. Chitrasen Samantra	XXXXXXX51G	Ph.D	NIT Rourkela	Production Engineering	25/07/2016	9.5	Assistant Professor	Assistant Professor		Regular	Yes		No
13	Mr.Priya Ranjan Panda	XXXXXXX31J	M.Tech	VSSUT Burla	Production Engineering	20/07/2016	9.5	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
14	Mr. Debasish Padhy	XXXXXXX03E	M.Tech	BPUT Rourkela	Heat Power And Thermal Engineering	01/08/2015	10.5	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
15	Dr. Durjyodhan Sethi	XXXXXXX82A	Ph.D	NIT Agartala	Machine Design & Analysis	02/02/2024	1.10	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
16	Mr. Trilochan Pradhan	XXXXXXX02B	M.Tech	BPUT Rourkela	Mechanical System Design	11/08/2016	9.4	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No

17	Dr. Saurav Kumar Nayak	XXXXXXX99J	Ph.D	Homi Bhaba National Institute Mumbai	Additive Manufacturing	25/07/2025	0.5	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
18	Dr. Biren Kumar Behera	XXXXXXX67L	Ph.D	NIT Silchar	Thermal Engineering	08/09/2025	0.3	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
19	Ms. Ankita Sethy	XXXXXXX25D	M.Tech	VSSUT Burla	Machine Design	25/08/2025	0.4	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
20	Mr. Krishna Chandra Patra	XXXXXXX64L	M.Tech	VSSUT Burla	Machine Design & Analysis	23/06/2022	3.2	Assistant Professor	Assistant Professor		Contractual Fulltime	No	05/09/2025	No
21	Dr. AsishaRanjan Pradhan	XXXXXXX28A	Ph.D	NIT, Jamshedpur	Fluid Mechanics	02/02/2024	1.3	Assistant Professor	Assistant Professor		Contractual Fulltime	No	31/05/2025	No
22	Mr. K. Suman Rao	XXXXXXX39D	M.Tech	IIT, Bhubaneswar	Thermal science and engineering	09/07/2018	5.10	Assistant Professor	Assistant Professor		Contractual Fulltime	No	31/05/2024	No
23	Dr. Pradyumna Kumar Sahoo	XXXXXXX20A	Ph.D	IIEST Shibpur	Machine Design	02/02/2024	0.3	Assistant Professor	Assistant Professor		Contractual Fulltime	No	31/05/2024	No
24	Mr. SaumesHarichandan	XXXXXXX93C	M.Tech	IIT Guwahati	Fluid And Thermal Engg	26/07/2012	13.5	Assistant Professor	Assistant Professor		Regular	Yes		No
25	Mr. Anjan Kumar Mishra	XXXXXXX01J	M.Tech	VSSUT Burla	Production Engineering	16/12/2017	8	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No

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

Sr.No	Name of the Faculty	PAN No.	APAAR faculty ID*(if any)	Highest degree	University	Area of Specialization	Date of Joining in this Institution	Experience in years in current institute	Designation at Time Joining in this Institution	Present Designation	The date on which Designated as Professor/ Associate Professor if any	Nature of Association (Regular/ Contract/ Ad hoc)	Currently Associated (Y/N)	In case of NO, Date of Leaving	IS HOD?
1	Mr. Sibasis Harihar Sahu	XXXXXXX59G	NA	M.Tech	BPUT,Odisha	Design & Dynamics	16/09/2021	4.3	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
2	Mr. Abhishek Barua	XXXXXXX26R	NA	M.Tech	BPUT,Odisha	Production engineering & Operational Management	05/02/2024	1.10	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
3	Mr. Shibabrata Swain	XXXXXXX63P	NA	M.Tech	OUTR,Odisha	Mechanical System Design	21/07/2025	0.5	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
4	Miss. Mreenmayee Nayak	XXXXXXX61P	NA	M.Tech	VSSUT BURLA	Machine Design & Analysis	21/07/2025	0.5	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
5	Dr Chitta Ranjan Mohanty	XXXXXXX94R	NA	Ph.D	IIT, Kharagpur	Environmental Engineering	06/04/2018	7.8	Professor	Professor		Regular	Yes		No

6	Dr Ranjan Kumar Swain	XXXXXXX84E	NA	Ph.D	IIT, delhi	Thermal Engineering	14/07/2023	2.5	Professor	Professor		Contractual Fulltime	Yes		No
7	Dr. Saroj Kumar Padhi	XXXXXXX71H	NA	Ph.D	SOA University.Bhubaneswar	Advanced Manufacturing	03/01/2022	4	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
8	Mr. Kamala Kanata Sahoo	XXXXXXX40G	NA	M.Tech	NIT Warangal	Automobile Engineering	16/07/2018	7.5	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No

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 Department3

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

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.B	132	132	132
UG1.C	132	132	125
UG1.D	132	125	124
UG1: Mechanical Engineering	**396**	**389**	**381**
UG2.B	30	30	30
UG2.C	30	30	60
UG2.D	30	60	60
UG2: Automobile Engineering	**90**	**120**	**150**
PG1.A	9	9	9
PG1.B	9	9	9
PG1: Mechanical System Design	**18**	**18**	**18**
PG2.A	18	18	18
PG2.B	18	18	18
PG2: Production Engineering	**36**	**36**	**36**

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
PG3.A	18	18	18
PG3.B	18	18	18
PG3: Thermal Engineering	**36**	**36**	**36**
DS=Total no. of students in all UG and PG programs in the Department	486	479	471
AS=Total no. of students of all UG and PG programs in allied departments	90	120	150
S=Total no. of students in the Department (DS) and allied departments (AS)	**S1=** 576	**S2=** 599	**S3=** 621
DF=Total no. of faculty members in the Department	19	20	19
AF= Total no. of faculty members in the allied Departments	8	6	5
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	**F1=** 27	**F2=** 26	**F3=** 24
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= 21.33**	**SFR2= 23.04**	**SFR3= 25.88**
Average SFR for 3 years	**SFR= 23.42**		

C3. Faculty Qualification

- Faculty qualification index (FQI) = 2.5 * [(10X +4Y)/RF] where
- X=No. of faculty members with Ph.D. degree or equivalent as per AICTE/UGC norms.
- Y=No. of faculty members with M. Tech. or ME degree or equivalent as per AICTE/ UGC norms.
- RF=No. of required faculty in the Department including allied Departments to adhere to the 20:1 Student-Faculty ratio, with calculations based on both student numbers and faculty requirements as per section C2 of this documents: (RF=S/20).

Table No.C3.1: Faculty qualification.

Year	X	Y	RF	FQ = 2.5 x [(10X + 4Y) / RF)]
2025-26(CAY)	9	18	27.00	15.00
2024-25(CAYm1)	8	18	28.00	13.57
2023-24(CAYm2)	7	17	29.00	11.90

C4. Faculty Cadre Proportion

- Faculty Cadre Proportion is 1(RF1): 2(RF2): 6(RF3)
- RF1= No. of Professors required = 1/9 * No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per C2 of this documents:.
- RF2= No. of Associate Professors required = 2/9 * 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 * No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents:.
- Faculty cadre and qualification and experience should be as per AICTE/UGC norms.

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

Year	Professors		Associate Professors		Assistant Professors	
	Required RF1	Available AF1	Required RF2	Available AF1	Required RF3	Available AF3
2025-26	3.00	2.00	6.00	0.00	18.00	11.00
2024-25	3.00	2.00	6.00	0.00	18.00	12.00
2023-24	3.00	2.00	6.00	0.00	19.00	12.00

Average	RF1=3.00	AF1=2.00	RF2=6.00	AF2=0.00	RF2=18.33	AF2=11.67

C5. Visiting/Adjunct Faculty/Professor of Practice

Table No. C5.1: List of visiting/adjunct faculty/professor of practice and their teaching and practical loads.

(CAYm1)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dasrathi Routroy	Chief manager(retd.),Engineering	Larsen & Turbo	Design of Machine Element	15.00
2	Dr. Santosh Kumar Sahoo	Professor, Mechanical Engineering	IIT Indore	Engineering Thermodynamics	24.00
3	Dr. V.Panduranga	Professor, School of Mechanical Engineering	IIT, Bhubaneswar	Robotics	21.00
4	Dr.Esham Panigrahi	Dy.Director (KIIT Student Research)	KIIT, Bhubaneswar	Hybrid Vehicles	52.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dasrathi Routray	Chief manager(retd.),Engineering	Larsen & Turbo	Design of Machine Element	16.00
2	Dr.Sontosh Kumar Sahoo	Professor, Mechanical Engineering	IIT Indore	Engineering Thermodynamics	26.00
3	Dr.V.Panduranga	Professor, School of Mechanical Engineering	IIT Bhubaneswar	Robotics	20.00
4	Dr.Esham Panigrahi	Dy.Director (KIIT Student Research)	KKIT University, Bhubaneswar	Hybrid Vehicle	60.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dasrathi Routray	Chief manager(retd.),Engineering	Larsen & Turbo	Design of Machine Element	20.00
2	Dr.Sontosh Kumar Sahoo	Professor, Mechanical Engineering	IIT, Indore	Engineering Thermodynamics	25.00
3	Dr.V.Panduranga	Professor, School of Mechanical Engineering	IIT, Bhubaneswar	Robotics	30.00
4	Dr.Esham Panigrahi	Dy.Director (KIIT Student Research)	KIIT, University, Bhubaneswar	Hybrid Vehicle	54.00

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	8	6	14
2	No. of peer reviewed conference papers published	16	1	1
3	No. of books/book chapters published	6	0	2

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)

(CAYm2)

(CAYm3)

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

PART D: Laboratory Infrastructure in the Department

(Data to be filled in for the Department)

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

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

Sr. No	Name of the Laboratory	Number of students per set up(Batch Size)	Name of the Important Equipment	Weekly utilization status(all the courses for which the lab is utilized)	Technical Manpower Support		
					Name of the Technical staff	Designation	Qualification
1	Material Testing & Mechanics of Solids lab	7	Computrs with Solidworks and Ansys	15	Mr.Devi Prasad Tripathy	Lab Technician	Diploma in Mechanical En
2	Mechanism and Machine Lab	7	Governor, Gyroscope Apparatus, Whirling of Shaft, Vibration apparatus, Balancing Apparatus	15	Mr.Ranjan Kumar Sahoo	Lab Technician	Diploma in Mechanical En
3	Kinamatics And Dynamics Machine Lab	7	"Band Brake Dynamometer, Epicyclic Gear Train, Reverted Gear Train, Screw Jack, Worm & Worm Wheel, Clutch Model"	15	Mr.Tribhuban Pradhan	Lab Technician	B.Tech in Mechanical Engi

4	Fluid Mechanics And Hydraulic Machine	7	Bernoulli's Equation Apparutus, Orifice meter, Kaplan Turbine, Francis Turbine, Pelton Turbine, Centrifugal	24	Mr.Devi Prasad Tripathy	Lab Technician	Diploma in Mechanical En
5	Engineering Thermodynamics Lab	7	Single Cylinder 4-Stroke Diesel Engine, Multi Cylinder 4-Stroke Petrol Engine, Two Stage Air Compressor	15	Mr.Bidyadhar Sahu	Lab Technician	Diploma in Mechanical En
6	Heat Transfer Lab	7	"Thermal conductivity of Composite Wall apparatus, Stefan-Boltzman apparatus, Natural Convection apparatus,	12	Mr.Bidyadhar Sahoo	Lab Technician	Diploma in Mechanical En
7	Refrigeration & Air Conditioning Lab	7	Vapour Compression System, Heat Pump, Duct Type R.A.C System, Vapour Absorption System, Window AC	12	Mr.Ranjan Kumar Sahoo	Lab Technician	Diploma in Mechanical En
8	Mechanical Design and analysis lab	36	Computrs with Solidworks and Ansys	30	Mr. G. Nagarjuna	Lab Technician	B.Tech in Mechanical Engi
9	Basic Mechanical Engineering Lab	7	Two stroke and Four stroke IC engine model, Bourden Tube Pressure Gauge	30	Mr.Tribhuban Pradhan	Lab Technician	B.Tech in Mechanical Engi
10	Basic Manufacturing Processes Lab	7	Arc Welding Setup, Gas Welding, MIG Welding, Rolling Mill	12	Mr. Krushna Chandra Pad	Lab Technician	ITI (Welding)
11	Machining Science and Technology Lab	7	Lathe Machines, Milling Machines, Shaper Machine, Drilling Machine, Grinding Machine	12	Mr. Himansu Panda	Lab Technician	Diploma in Mechanical En

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Material Testing Lab	(i) Wear safety shoes and goggles at all times. (ii) Ensure proper alignment of specimens before testing. (iii) Do not exceed the load capacity of testing machines. (iv) Keep hands away from moving parts during operation. (v) Report cracks, oil leakage, or abnormal noise immediately.
2	Mechanism and Machine Lab	(i) Use gloves while handling sharp or hot specimens. (ii) Ensure machines are properly grounded. (iii) Do not touch rotating parts during operation. (iv) Clean chips and debris using brushes, not hands. (v) Switch off machines after use.
3	Kinematics and Dynamics of Machines Lab	(i)Secure all rotating links and mechanisms before operation. (ii)Keep loose clothing and hair away from moving parts. (iii)Do not change experimental setup while the machine is running. (iv)Apply loads gradually and carefully. (v)Maintain safe distance from moving mechanisms.
4	Fluid Mechanics and Hydraulic Machines Lab	(i)Check pipe connections and valves before starting experiments. (ii)Avoid water spillage on the floor to prevent slipping. (iii)Operate pumps and turbines within rated speed and pressure. (iv)Ensure electrical connections are dry and insulated. (v)Release pressure slowly before shutdown.
5	Engineering Thermodynamics Lab	(i)Handle fuel carefully and avoid open flames. (ii)Ensure proper ventilation to avoid gas accumulation. (iii)Do not touch hot engine parts during or after operation. (iv)Check lubrication and cooling systems before starting. (v)Use fire extinguishers in case of emergency.

6	Heat Transfer Lab	(i)Handle heaters, boilers, and hot surfaces with care. (ii)Use thermal gloves while handling hot equipment. (iii)Ensure proper insulation of heated parts. (iv)Avoid direct contact with steam and hot fluids. (v)Switch off power supply after the experiment.
7	Refrigeration & Air Conditioning Lab	(i)Handle refrigerants carefully and avoid inhalation. (ii)Ensure leak-free connections in the system. (iii)Do not operate compressors without proper lubrication. (iv)Avoid direct contact with very cold surfaces. (v)Maintain proper ventilation in the lab.
8	Mechanical Design and Analysis Lab	(i)Use software and equipment only after proper instruction. (ii)Avoid overloading test rigs and fixtures. (iii)Secure specimens properly before testing. (iv)Follow correct procedures for simulation and analysis. (v)Maintain a clean and organized workspace.
9	Basic Mechanical Engineering Lab	(i) Operate all models strictly under faculty supervision. (ii)Do not touch rotating parts such as gears, belts, and shafts during operation. (iii)Ensure proper electrical earthing and switch OFF power after use. (iv)Do not exceed permissible pressure limits in gauges and fluid setups. (v)Maintain cleanliness and keep fire extinguisher and first-aid kit accessible.
10	Basic Manufacturing Processes Lab	(i) Wear Mandatory PPE: Always use safety goggles and closed-toe leather shoes. (ii) Secure Loose Items: Tie back long hair and avoid wearing loose clothing, ties, or dangling jewelry. (iii)Keep Workspaces Clear: Immediately clean up oil spills and remove scrap or metal shavings from the floor. (iv) Use Tools, Not Hands: Use a brush to clear metal chips; never touch moving parts or use bare hands to wipe surfaces. (v) Authorize Before Operating: Never start any machine without direct instructor permission and prior training.
11	Machining Science and Technology Lab	(i) PPE Mandatory: Always wear safety goggles and closed-toe leather shoes to protect against high-speed flying chips and heavy tools. (ii)No Entanglement Hazards: Avoid loose clothing, jewelry, or open hair that could get caught in rotating spindles or chucks. (iii) Use Brushes for Swarf: Never use bare hands or compressed air to clear metal chips (swarf); always use a brush or specialized rake. (iv) Secure Workpieces: Ensure the workpiece and cutting tool are rigidly clamped before starting the machine to prevent them from flying out. (v) Know Emergency Stops: Locate the red emergency "kill switch" on your specific machine before beginning any operation.

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)	460	23	15	6	57
2024-25(CAYm1)	630	32	18	7	49
2025-26(CAY)	630	32	19	11	54

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	65800000	80860000	18029000	52530000	0	65400000	95760000	78000000
Library	250000	232000	600000	592000	300000	283000	250000	231000
Laboratory equipment	5000000	3345000	6000000	5314000	35000000	31137000	12000000	10331000
Teaching and non-teaching staff salary	250000000	18925000	2200000000	21454000	210000000	200415000	200000000	169700039
Outreach Programs	100000	80000	80000	70000	50000	45000	20000	20000
R&D	2782000	2782000	412000	412000	223000	223000	391000	300091
Training, Placement and Industry linkage	15000000	14725000	13090000	12523000	11765000	9826000	11225000	10732000
SDGs	20000	18000	20000	15000	15000	12000	10000	10000
Entrepreneurship	200000	150000	200000	120000	150000	75000	150000	70000
Others, specify								
Total	**339152000**	**121117000**	**2238431000**	**93030000**	**257503000**	**307416000**	**319806000**	**269394130**

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	5000000	3345000	5000000	5314000	5000000	3560000	5000000	3420000
Software	2000000	1200000	1500000	1400000	1500000	1000000	1000000	700000
SDGs	20000	18000	20000	15000	15000	12000	10000	10000
Support for faculty development	1000000	800000	800000	700000	500000	500000	300000	300000
R & D	2500000	2782000	1000000	412000	800000	223000	500000	391000
Industrial Training, Industry expert, Internship	500000	430000	500000	420000	500000	410000	400000	250000
Miscellaneous Expenses*	0	0	0	0	0	0	0	0

Total	11020000	8575000	8820000	8261000	8315000	5705000	7210000	5071000