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**: 1
Application No: 10513	**Date of Submission**: 17-04-2025

PART A- Profile of the Institute

A1.Name of the Institute: GOVERNMENT COLLEGE OF ENGG. AURANGABAD (AN AUTONOMOUS INSTITUTE OF GOVT. OF MAHARASHTRA)	
Year of Establishment : 1960/1994	Location of the Institute: Chhtrapati Sambhajinagar
A2. Institute Address:GOVERNMENT COLLEGE OF ENGG.STATION ROAD,OSMANPURA	
City:AURANGABAD	State:Maharashtra
Pin Code:431005	Website:HTTP://WWW.GECA.AC.IN/
Email:PRINCIPALGECA@YAHOO.COM	Phone No(with STD Code):0240-2366111
A3. Name and Address of the Affiliating University (if any):	
Name of the University : NIL	City: Aurangabad
State : Maharashtra	Pin Code: 431004
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: **6**
- No. of PG programs: **10**

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

Sr.No.	Discipline	Level of program	Name of the program	Year of Start	Year of Closed	Name of The Department
1	Computer Application	PG	Master in Computer Applications	1992	--	Computer Application
2	Engineering & Technology	UG	Civil Engineering	1960	--	Civil Engineering
3	Engineering & Technology	UG	Computer Science and Engineering	1986	--	Computer Science and Engineering
4	Engineering & Technology	PG	Computer Science and Engineering	2001	--	Computer Science and Engineering
5	Engineering & Technology	UG	Electrical Engineering	1960	--	Electrical Engineering
6	Engineering & Technology	PG	Electrical Machines & Drives	2009	--	Electrical Engineering
7	Engineering & Technology	PG	Electrical Power Systems	2009	--	Electrical Engineering
8	Engineering & Technology	PG	Electronics Engineering	1993	--	Electronics
9	Engineering & Technology	UG	Electronics Telecommunication Engineering	1986	--	Electronics
10	Engineering & Technology	PG	Geotechnical Engineering	2006	--	Civil Engineering

11	Engineering & Technology	UG	Informatics Technology	2001	--	Information Technology
12	Engineering & Technology	UG	Mechanical Engineering	1960	--	Mechanical Engineering
13	Engineering & Technology	PG	Mechanical Engineering Design	1986	--	Mechanical Engineering
14	Engineering & Technology	PG	Production Engineering	2006	--	Mechanical Engineering
15	Engineering & Technology	PG	Structural Engineering	2003	--	Applied Mechanics
16	Engineering & Technology	PG	Water Resource Engineering	2002	--	Civil 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 Engineering	No	Electrical Engineering	UG
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/COMPETENT AUTHORITY ARROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROGRAM DURATION
1	Mechanical Engineering	UG	1960 / --	60	No	NA	60	1960	F.No. Western /1-43655799193/2024/EOA Date of Approval: 08-May-2024	Granted accreditation for 3 years for the period (specify period)	2021	2024	3	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 :	Dr. Shyam Arjun Sonwane
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)	2024-25 (CAY)	2023-24 (CAYm1)	2022-23 (CAYm2)	2021-22 (CAYm3)	2020-21 (CAYm4)	2019-20 (CAYm5)	2018-19 (CAYm6)
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	58	59	55	58	60	58
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	13	10	16	13	10	8
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	9	6	7	8	5	8	5
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	69	77	76	79	76	78	71

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]
2024-25 (CAY)	60	9	0	115.00
2023-24 (CAYm1)	60	6	0	106.67
2022-23 (CAYm2)	60	7	0	110.00

Average [(ER1 + ER2 + ER3) / 3] = 110.56≡ 100

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

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

Item	(2020-21) LYG	(2019-20) LYGm1	(2018-19) 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).	76.00	78.00	71.00
B=No. of students who graduated from the program in the stipulated course duration	71.00	70.00	68.00
Success Rate (SR)= (B/A) * 100	93.42	89.74	95.77

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 92.98

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(2023-24)	CAYm2(2022-23)	CAYm3 (2021-22)
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)	6.84	6.81	7.14
Y=Total no. of successful students	64.00	63.00	60.00
Z=Total no. of students appeared in the examination	58.00	59.00	55.00

API [X*(Y/Z)]	7.55	7.27	7.79

Average API[(AP1+AP2+AP3)/3] : 7.54

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 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-22)
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)	6.97	6.89	7.89
Y=Total no. of successful students	73.00	76.00	74.00
Z=Total no. of students appeared in the examination	73.00	76.00	74.00
API [X * (Y/Z)]	6.97	6.89	7.89

Average API [(AP1 + AP2 + AP3)/3] : 7.25

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 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-22)
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)	7.01	7.72	7.86
Y=Total no. of successful students	76.00	74.00	74.00
Z=Total no. of students appeared in the examination	76.00	74.00	74.00
API [X*(Y/Z)]:	7.01	7.72	7.86

Average API [(AP1 + AP2 + AP3)/3] : 7.53

B9. Placement, Higher Studies, and Entrepreneurship

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

Item	LYG (2020-21)	LYGm1(2019-20)	LYGm2(2018-19)
FS*=Total no. of final year students	74.00	74.00	70.00
X=No. of students placed	46.00	45.00	40.00
Y=No. of students admitted to higher studies	2.00	4.00	7.00
Z= No. of students taking up entrepreneurship	0.00	0.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	64.86	66.22	67.14

Average Placement Index = (P_1 + P_2 + P_3)/3: 66.07 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. Dr. Ramakant Shrivastava	XXXXXXX11D	Ph.D	I I T Roorkee	Mechanical Engineering	01/06/2023	1.10	Professor	Professor	01/06/2023	Regular	Yes		No
2	Dr. Shyam Arjun Sonwane	XXXXXXX13P	Ph.D	Dr B A Marthwada University Aurangabad	Mechanical Engineering	01/06/2023	1.10	Associate Professor	Associate Professor	01/06/2023	Regular	Yes		Yes
3	Dr. Sanjay Bhaskar Chikalthankar	XXXXXXX54A	Ph.D	Dr B A Marthwada University Aurangabad	Mechanical Engineering	19/07/2023	1.8	Associate Professor	Associate Professor	19/07/2023	Regular	Yes		No
4	Dr. Umesh Vishnu Hambire	XXXXXXX25L	Ph.D	Dr B A Marthwada University Aurangabad	Mechanical Engineering	17/01/2011	14.2	Lecturer	Assistant Professor		Regular	Yes		No
5	Dr. Aniruddha Maruti Nikalje	XXXXXXX92N	Ph.D	N I T Wrangal	Mechanical Engineering	02/06/2018	6.10	Associate Professor	Associate Professor	02/06/2018	Regular	Yes		No
6	Dr. Umakant Nagnathappa Shete	XXXXXXX22E	Ph.D	I I T Roorkee	Mechanical Engineering	07/08/2018	6.7	Associate Professor	Associate Professor		Regular	Yes		No
7	Dr Yogesh Uttam Rao Sathe	XXXXXXX97D	Ph.D	Dr B A Marthwada University Aurangabad	Mechanical Engineering	01/06/2018	6.10	Lecturer	Associate Professor	01/06/2018	Regular	Yes		No
8	Madhavi S. Harne	XXXXXXX31M	M.E/M.Tech	Dr B A Marthwada University Aurangabad	Design Engineering	26/09/2024	0.6	Associate Professor	Associate Professor	26/09/2024	Regular	Yes		No
9	Dr. Shailesh Damodarrao Ambekar	XXXXXXX06J	Ph.D	Savitribai Phule University, Pune	Mechanical Engineering	07/01/2011	14.2	Assistant Professor	Associate Professor	13/01/2015	Regular	Yes		No
10	Sachin Sunil Chaudhari	XXXXXXX26E	M.E/M.Tech	Kaviyatri Bahanabai Chaudhari, North Maharshtra Univ Jalgoan	Machine Design	08/11/2021	3.5	Assistant Professor	Assistant Professor		Regular	Yes		No

11	Abhijit Shaligram Kousal	XXXXXXX14K	M.E/M.Tech	Dr B A Marthwada University Aurangabad	Heat Power Engineeing	01/06/2023	1.10	Assistant Professor	Assistant Professor		Regular	Yes		No
12	Kishore Chandrakant Raipurkar	XXXXXXX65P	M.E/M.Tech	Dr B A Marthwada University Aurangabad	Design Engineering	14/08/2024	0.7	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
13	Avinash Vitthalrao Kshirsagar	XXXXXXX49P	B.E/B.Tech	Marathwad university, Aurangabad	Adjunct Faculty Mechanical Engineering	10/07/2024	0.8	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
14	Nandkishore Gotarkar	XXXXXXX34Q	MBA	Maharashtra Open university	Professor on Practice Mech	19/08/2024	0.7	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
15	Akshansh Kataria	XXXXXXX34G	M.Tech	Energy and petrolium studies university Dehradun	Thermal Engineering	20/07/2023	1.8	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
16	Lajari Aniket Patil	XXXXXXX67E	M.E/M.Tech	Dr B A Ambedkar Marathwada University Aurangabad	Manufacturing	11/07/2022	2.8	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
17	Ashwarya Dilip Dange	XXXXXXX20M	M.E/M.Tech	Dr B A Marthwada University Aurangabad	Manufacturing	21/07/2023	0.11	Assistant Professor	Assistant Professor		Contractual Fulltime	No	25/06/2024	No
18	Pooja Pandhare	XXXXXXX01G	M.E/M.Tech	Dr B A Marthwada University Aurangabad	Thermal Engineering	21/07/2023	0.10	Assistant Professor	Assistant Professor		Contractual Fulltime	No	27/05/2024	No
19	Zulfequar Ali Asgar Ali	XXXXXXX89R	M.E/M.Tech	Dr B A Marthwada University Aurangabad	CAD	20/08/2020	3.9	Assistant Professor	Assistant Professor		Contractual Fulltime	No	20/05/2024	No
20	Saili Ramesh Kulkarni	XXXXXXX23H	M.E/M.Tech	Swami Ramanad Tirth University Nanded	CAD CAM	01/01/2011	14.2	Assistant Professor	Assistant Professor		Regular	No	31/05/2023	No
21	Dr Kushal Suresh Wasankar	XXXXXXX59R	Ph.D	VJTI, Mumbai	Thermal Engineering	20/10/2011	11.8	Lecturer	Assistant Professor		Regular	No	13/07/2023	No
22	Jintendra Dighe	XXXXXXX94D	M.E/M.Tech	Dr B A Marthwada University Aurangabad	Design Engineering	19/07/2022	0.9	Assistant Professor	Assistant Professor		Contractual Fulltime	No	08/05/2023	No

23	Nilesh Madhukar Kathar	XXXXXXX05Q	M.E/M.Tech	Dr B A Marthwada University Aurangabad	Design Engineering	29/07/2022	1	Assistant Professor	Assistant Professor		Contractual Fulltime	No	29/07/2023	No
24	Harne M Sashi Kumar	XXXXXXX32M	M.E/M.Tech	Dr B A Marthwada University Aurangabad	Design Engineering	05/07/2011	11.10	Assistant Professor	Assistant Professor		Regular	No	01/06/2023	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 Department2

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

Description	**CAY(2024-25)**	**CAYm1 (2023-24)**	**CAYm2 (2022-23)**
UG1.B	66	66	66
UG1.C	66	66	66
UG1.D	66	66	66
UG1: Mechanical Engineering	**198**	**198**	**198**
PG1.A	7	7	7
PG1.B	7	7	13
PG1: Mechanical Engineering Design	**14**	**14**	**20**
PG2.A	18	18	18
PG2.B	18	18	18
PG2: Production Engineering	**36**	**36**	**36**
DS=Total no. of students in all UG and PG programs in the Department	248	248	254
AS=Total no. of students of all UG and PG programs in allied departments	0	0	0

Description	CAY(2024-25)	CAYm1 (2023-24)	CAYm2 (2022-23)
S=Total no. of students in the Department (DS) and allied departments (AS)	**S1=** 248	**S2=** 248	**S3=** 254
DF=Total no. of faculty members in the Department	13	15	13
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=** 13	**F2=** 15	**F3=** 13
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= 20.67**	**SFR2= 17.71**	**SFR3= 19.54**
Average SFR for 3 years	**SFR= 19.31**		

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)]
2024-25(CAY)	8	5	12.00	20.83
2023-24(CAYm1)	8	7	12.00	22.50
2022-23(CAYm2)	4	9	12.00	15.83

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
2024-25	1.00	1.00	2.00	6.00	8.00	3.00
2023-24	1.00	1.00	2.00	6.00	8.00	3.00
2022-23	1.00	0.00	2.00	3.00	8.00	6.00
Average	RF1=1.00	AF1=0.67	RF2=2.00	AF2=5.00	RF2=8.00	AF2=4.00

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	Seema Wagh	Visiting Faculty	Government College of Engineering, Aurangabad	Communication Skills	120.00
2	Jayashri Sathe	Visiting Faculty	Government College of Engineering, Aurangabad	Engineering Mathematics-III	55.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mahendra Pande	Visiting Faculty	Government College of Engineering, Aurangabad	Basics of Mechanical Engineering	120.00
2	Jayashri Sathe	Visiting Faculty	Government College of Engineering, Aurangabad	Engineering Mathematics-III	60.00
3	Dr. Asmita Salve	Visiting Faculty	Government College of Engineering, Aurangabad	Communication Skills	120.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Milind Pelagade	Visiting Faculty	Government College of Engineering, Aurangabad	Engineering Graphics	120.00
2	Mahendra Pande	Visiting Faculty	Government College of Engineering, Aurangabad	Basics of Mechanical Engineering	120.00
3	Sujata Rathod	Visiting Faculty	Government College of Engineering, Aurangabad	Communication Skills	120.00

C6. Academic Research

Table No. C6.1: Faculty publication details.

S.No.	Item	2023-24 (CAYm1)	2022-23 (CAYm2)	2021-22 (CAYm3)
1	No. of peer reviewed journal papers published	20	24	23
2	No. of peer reviewed conference papers published	2	1	2
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)

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.B.Chiklathankar	NIL	Department of Mechanical Engineering, Government College of engineering, Chhatrapati Sambhajinagar	Development of Turbomachinery Laboratory	Siemens Energy Industrial Turbo machinery Pvt Ltd	3 Years	61.70
						Amount received (Rs.):61.70

(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
NIL	NIL	NIL	NIL	NIL	NIL	0.00
						Amount received (Rs.):0.00

Total Amount (Lacs) Received for the Past 3 Years: 61.70

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 R.K.Shrivastava	NIL	CHDK TECHNOLOGY PUNE	Product approval pf solar based cooling system	CHDK TECHNOLOGY PUNE	1 week	0.28
Dr S.D.Ambekar	NIL	Mahila Balvikas Adivasi Vikas Prakalp	Testing of Lab equipments	Mahila Balvikas Adivasi Vikas Prakalp	1 week	0.17
Dr R.K.Shrivastava	NIL	Aurangabad municipal corporation	Testing of Solar Panel and AC	Aurangabad municipal corporation	1 week	160.00
Dr Y.U.Sathe	NIL	Jilha Samanvaya Adhikari Mahila Aarthik Vikas Mahamandal : Hingoli	Testing of Lab equipments	Ganesh Fabrication	1 week	4.22
						Amount received (Rs.):164.67

(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.D.Ambekar	NIL	Mahila Balvikas Adivasi Vikas Prakalp	Testing of Lab equipments	Mahila Balvikas Adivasi Vikas Prakalp	1 week	1.82
Dr. A.M.Nikalje	NIL	Projexel India	Testing of refrigeration unit	Projexel India	1 week	2.07
Dr. Y.U.Sathe	NIL	Jilha Samanvaya Adhikari Mahila Aarthik Vikas Mahamandal : Hingoli	Testing of Lab equipment	Ganesh Fabrication	1 week	3.28
						Amount received (Rs.):7.17

(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
NIL	NIL	NIL	NIL	NIL	NIL	0.00
						Amount received (Rs.):0.00

Total amount (Lacs) received for the past 3 years: 171.84

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	IC Engine Laboratory	20	1. Sectionized 2 stroke engine with ignition system 2. Heat balance sheet apparatus 3. Single cylinder 4	1,Course I.C.E	Shri. C. S. Naik	Lab Assistant	SSC,ITI, DME
2	Metrology and Quality Control Laboratory	20	1. Universal measuring microscope 2. Auto-collimeter 3. Gauge block testing unit 4. Check master unit 5. Rank	15weeks/year	Shri. C. S. Naik	Lab Assistant	SSC,ITI, DME
3	CAD/CAM Laboratory	20	1. Auto desk Education solution set 2. Matlab Software 3. Computer T4 3.0 GHZ 4. Catia Software VR20 5.	1Engg, Graphi	Shri. S. S. Shastri	Lab Assistant	SSC,ITI
4	Refrigeration and Air Conditioning	20	1. Dehumidifier 2. Air Conditioning Trainer 3. Experimental Vapour Absorption System 4. Ice plant	15weeks/year	Shri P.J. Salunkhe	Lab Assistant	SSC,ITI
5	Metallurgy Laboratory	20	1. Metro electric muffle furnace 2. Die maker'svickers hardness tester machine 3. Hr- 200 & electronic top pan	15weeks/year	Shri. S. S. Shastri	Lab Assistant	SSC,ITI
6	Heat Transfer Laboratory	20	1. Thermal conductivity of insulating powder 2. Shell & tube Heat Exchanger 3. Drop wise Film wise	15weeks/year	Shri P.J. Salunkhe	Lab Assistant	SSC,ITI
7	Mechanical Measurement Laboratory	20	1. Stroboscope 2. Simson oscilloscope 3. Linear variable differential transformer 4. Electrically operated	15weeks/year	Shri P.J. Salunkhe	Lab Assistant	SSC,ITI
8	Mechatronics Laboratory	20	1. Mechatronic simulation software 2. Strain Gauge transducer set 3. Oil powered hydraulic trainer 4.	15weeks/year	Shri P.J. Salunkhe	Lab Assistant	SSC,ITI

9	Automatic Control systems	20	1. P PI PID Control System trainer for Demo apparatus 2. Temperature measurement using radiation sensor 3.	15weeks/year	Shri P.J. Salunkhe	Lab Assistant	SSC,ITI
10	Thermodynamics Laboratory	20	1. Boy's gas calorimeter test rig 2. Blower test rig 3. Separating & throttling calorimeter 4. Reciprocating air	20 wee1, Cour	Shri. C. S. Naik	Lab Assistant	SSC,ITI
11	Theory of Machines Laboratory	20	1. Drill tool dynamometer 2. Universal governor 3. Motorized Gyroscope 4. Journal Bearing tester 5.	15 weeks/year	Shri P.J. Salunkhe	Lab Assistant	SSC,ITI
12	Drawing Hall	22	1. Drawing Boards 2. Drawing Tables	30weeks/year	Shri P.J. Salunke	Lab Assistant	SSC,ITI
13	Turbo Machinery Lab setup under CSR Program by Siemens Energy	20	1.Integrally Geared Compressor 2.Process Reciprocating Compressor	15 weeks/year	Shri. S. S. Shastri	Lab Assistant	SSC,ITI
14	Workshop	20	Woode cutting CNC, Lathe, Carpentry, fitting shop, blck smith	Turning 15 We	Shri.S.D.Waghmare	Foreman	SSC, ITI

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Thermodynamics Laboratory	Fire Extinguisher installed in corridor, Do's and Don'ts Instruction charts displayed, Availability of First Aid Kit and Emergency Number
2	Theory of machines Laboratory	Fire Extinguisher installed in corridor, Overload Fuse Box, Do's and Don'ts Instruction charts displayed, Availability of First Aid Kit and Emergency Number
3	Metallurgy Laboratory	Fire Extinguisher installed in corridor, Do's and Don'ts Instruction charts displayed, Availability of First Aid Kit and Emergency Number
4	Heat Transfer Laboratory	Fire Extinguisher installed in corridor, safety gloves, Do's and Don'ts Instruction charts displayed, Availability of First Aid Kit and Emergency Number
5	Metrology and Quality ControlLaboratory	Fire Extinguisher installed in corridor, Do's and Don'ts Instruction charts displayed, Availability of First Aid Kit and Emergency Number
6	Mechanical Measurement Laboratory	Fire Extinguisher installed in corridor, Do's and Don'ts Instruction charts displayed, Availability of First Aid Kit and Emergency Number

7	CAD/CAM Laboratory	Fire Extinguisher installed in corridor, Do's and Don'ts Instruction charts displayed, Availability of First Aid Kit and Emergency Number
8	IC Engine Laboratory	Fire Extinguisher installed in corridor, Do's and Don'ts Instruction charts displayed, Availability of First Aid Kit and Emergency Number
9	Mechatronics Laboratory	Fire Extinguisher installed in corridor, Do’s and Don’ts Instruction charts displayed, Availability of First Aid Kit and Emergency Number
10	Refrigeration and Air conditioning Laboratory	Fire Extinguisher installed in corridor, Do's and Don'ts Instruction charts displayed, Availability of First Aid Kit and Emergency Number
11	Automatic Control system Laboratory	Fire Extinguisher installed in corridor, Do's and Don'ts Instruction charts displayed, Availability of First Aid Kit and Emergency Number
12	Smart Tutorial Room sponsored by Siemens Energy	Fire Extinguisher installed in corridor, Do's and Don'ts Instruction charts displayed, Availability of First Aid Kit and Emergency Number
13	Drawing Hall	Fire Extinguisher installed in corridor, Do's and Don'ts Instruction charts displayed, Availability of First Aid Kit and Emergency Number
14	Workshop	Fire Extinguisher installed in corridor, Do’s and Don’ts Instruction charts displayed, safety goggles, safety gloves, safety apron, floor marking, welding shield, safety shoes, Availability of First Aid Kit and Emergency Number

D3. Project Laboratory/Research Laboratory

Project laboratory

- Central Workshop facility is available and it is used for fabrication of student project.
- The students can avail all the technical facility/support depending on the theme of their project in the respective laboratory.
- The projects are designed as per the guidelines specified by the institute.
- For the fabrication of project, the students are guided by the skilled technical staff in workshop for various machining operations as per their requirement.
- The Computer Centre facility helps students in the literature survey for topic selection.
- The CAD/CAM laboratory facility can be utilized by the students for design and analysis phase of their project.
- The list of major equipment's and facilities available for the project at Departmental level and workshop are

1. EDM
2. 3D Printer
3. VMC
4. GAS Analyzer
5. ANSYS
6. CATIA software ()
7. Relia-software
8. Tribometer
9. Hypermesh software
10. Variable compression ratio petrol engine
11. Eddy current dynamometer
    - Following provision is made for carrying out project works at the Project Laboratory.

1. Battery operated Drilling machine
2. Hand Drilling machine
3. Multipurpose Cutter
4. Dewalt Angle Grinder
5. Air blower
6. Venus tool box
7. Screw Driver set
8. 10-inch pipe wrench
9. Welding machine 2x7300L
10. Bench Vice
11. Tool display board
12. Bambu Lab P1S 3D printer
13. Bambu Lab P1S Combo 3D printer


DEWALT


ANAND AIR COOLER


ZX7300L

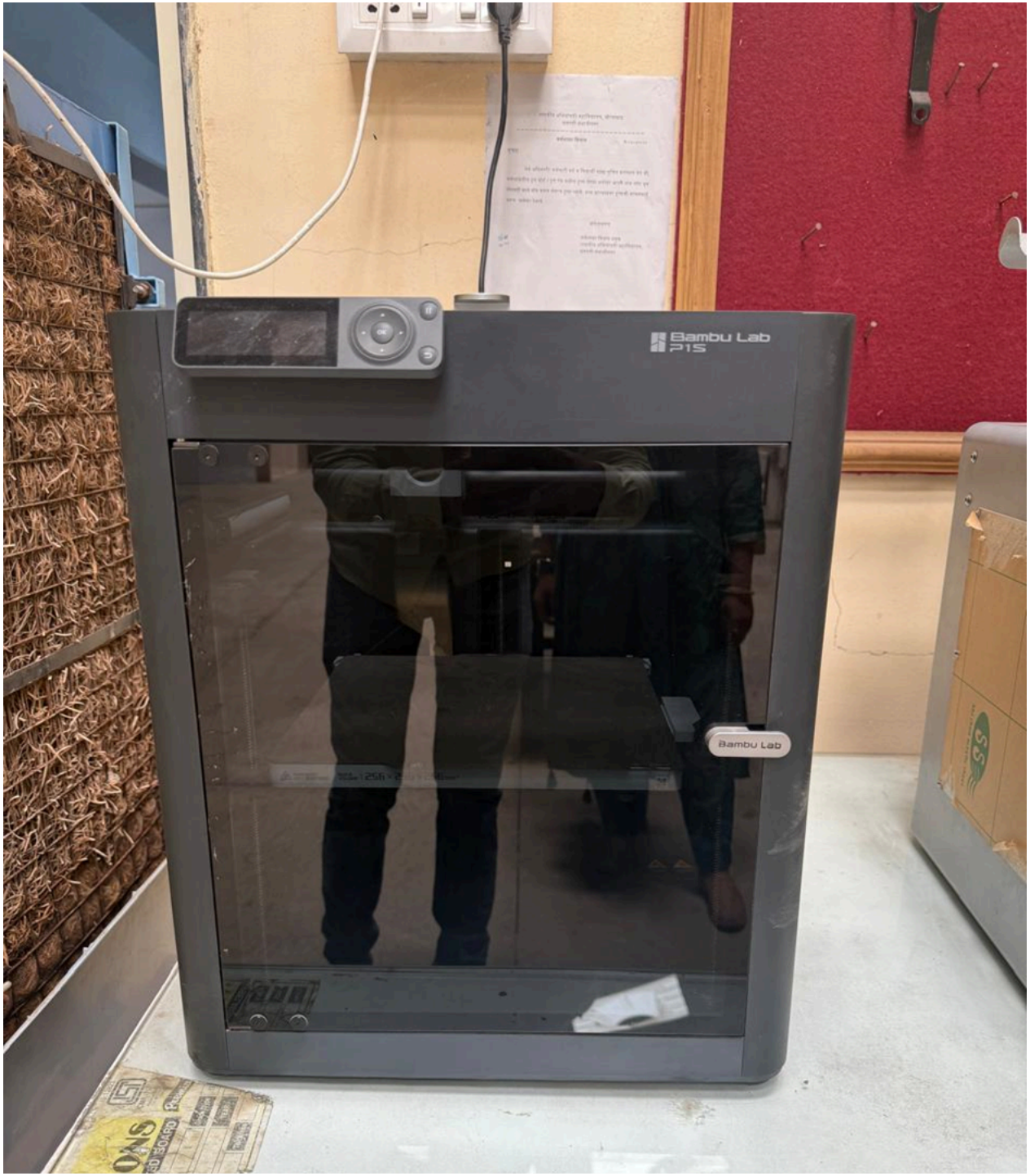

ROBORBIT

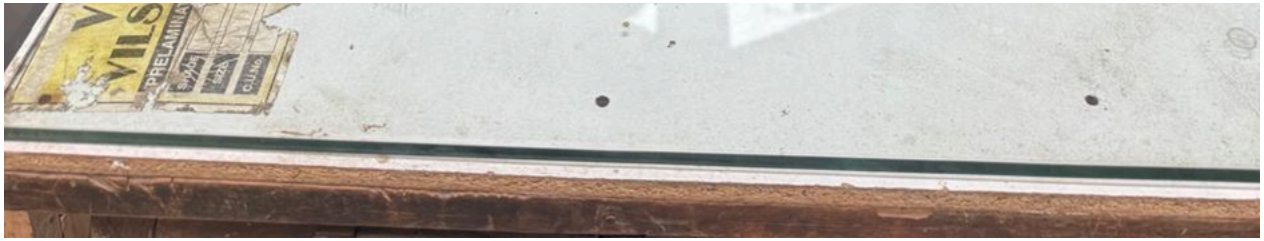

ROBORBIT


MTAB
XLTURN

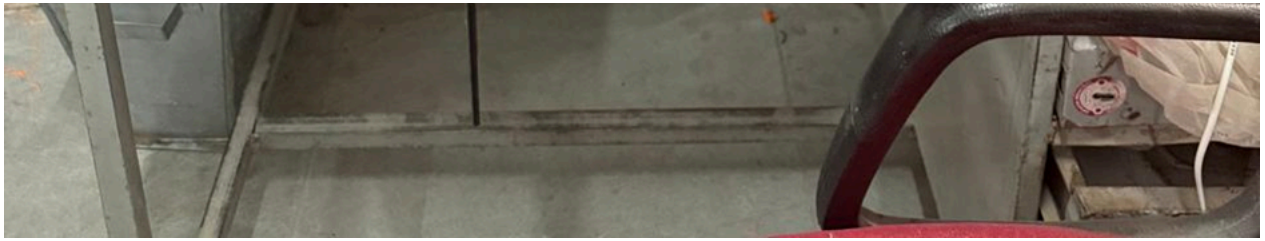

TL
HAAS
HAAS


MAHALE
AUTOMATIONS PVT LTD


Bambu Lab
P1S
Bambu Lab




Bambu Lab
AMS
Bambu Lab
P1S



2.Incubation Centre

An Incubation Centre an institutional support system designed to nurture and accelerate the growth of start-ups, especially those based on technology and innovation. These centers play a vital role in transforming ideas into successful business ventures by offering the necessary infrastructure, mentorship, funding assistance, and a collaborative environment.

The primary goal of an incubation center is to support early-stage entrepreneurs and innovators by reducing the risks involved in starting a new business. It acts as a catalyst for the growth of start-ups by offering facilities such as co-working spaces, research and development labs, meeting rooms, and high-speed internet, along with access to equipment and software tools necessary for product development and testing.

A crucial component of incubation is mentorship and consultation. Experienced professionals and industry experts are made available to guide entrepreneurs through various stages of business development, including idea validation, market analysis, business model development, and legal compliances. These mentors help in refining the business strategy and identifying potential challenges in advance.

Incubation centers also assist with business plan preparation and project reports, which are essential for approaching investors and financial institutions. Many incubation centers have tie-ups with banks, venture capitalists, angel investors, and government funding agencies to help start-ups obtain financial support or loans.

Another key service is product prototyping, where start-ups can design and test early versions of their products with technical support and feedback. This significantly reduces time-to-market and improves the chances of product success.

Additionally, growth acceleration programs are often conducted to provide advanced guidance in marketing strategies, customer acquisition, branding, and scaling operations. Some incubation centers also assist in the soft launch of products, where the product is introduced to a limited audience to gather initial feedback before a full commercial release.

Apart from technical and business support, incubation centers create a collaborative atmosphere where entrepreneurs from various domains can network, share knowledge, and form partnerships. Such an ecosystem promotes creativity and helps in cross-disciplinary innovation.

In summary, incubation centers play a critical role in the entrepreneurial ecosystem by offering a holistic support structure. From idea inception to business execution, they provide a nurturing environment for transforming innovative concepts into viable businesses. By reducing startup costs, minimizing risks, and enhancing productivity, incubation centers contribute significantly to the development of technology-based enterprises and the overall economy.

Objective of Ankur GECA

Develop innovative thinking culture in campus and Develop innovative thinking culture in campus and support college projects of students to become Business Products.

New venture creation through providing incubation and host of other support in the areas of Engineering, Software Technology, Agriculture and Allied sectors.

Interfacing and Networking between academic, R & D institutions, industries and financial institutions.

Technology commercialization, targeted at providing a much needed platform for speedy commercialization of technologies developed in the academic and R & D institutions to reach the end users.

3. Research Laboratory

A **research laboratory** is a dedicated space designed for conducting scientific and technical investigations. It is equipped with modern tools and instruments that help researchers explore ideas, carry out experiments, and create innovative solutions in fields such as science, engineering, healthcare, and technology.

These laboratories play a vital role in:

- Exploring new ideas and developing creative solutions.
- Supporting academic work like student projects, theses, and research papers.
- Conducting controlled experiments to ensure accurate and reliable results.
- Collaborating with industries, academic institutions, and funding agencies.
- Designing prototypes and testing them before commercial production.
- Providing practical training and improving technical skills among students and researchers.

Objectives of a Research Laboratory

1. **Promote Scientific Research**
   To conduct systematic investigations that expand knowledge in specific domains.
2. **Support Innovation and Development**
   To create and test new technologies, products, or processes through experimentation.
3. **Offer Practical Training**
   To provide hands-on learning with equipment and techniques used in research and industry.
4. **Assist in Academic Projects**
   To guide and support student research work, including dissertations and final-year projects.
5. **Encourage Collaboration**
   To foster partnerships with industries, academic institutions, and research bodies.
6. **Ensure Accurate Testing and Analysis**
   To maintain a controlled environment for reliable testing and validation of theories and materials.
7. **Contribute to Research Outputs**
   To produce high-quality publications and innovations that can lead to patents or commercial use.
8. **Support Start-ups and Entrepreneurship**
   To act as a base for incubating new business ideas and assisting in prototype development.

The list of major equipment’s and facilities available for Reasearch Laboratory at Departmental level

1.3D Printer

2.Tribometer

3.Scratch Tester

4.Micro Vickers hardness Tester Multimedia Projector

5.Mobile storage Compactor

6.Thermal Image Hand Held make FLZR

7.Labview Software

8.Strain,Pressure,Sound and Vibration,Voltage,current Measurement

9.Data Acquisition System


Tribometer With Cooling System.
TRIBOMETER
Tribometer With Cooling System.

Research Facility for BAJA SAE INDIA competition

Institutional Support for BAJA SAE Participation

Government College of Engineering, Aurangabad, plays a vital role in encouraging and supporting student participation in the **BAJA SAE India** competition. The college recognizes the importance of experiential learning and actively fosters a culture of innovation, teamwork, and engineering excellence.

Key ways the college facilitates BAJA SAE participation include:

1. Infrastructure and Workspace

- The college provides a dedicated **workshop and fabrication space** for the team to design, build, and test their vehicles.
- Access to essential machinery, tools, and equipment is ensured for smooth execution of the project.

2. Faculty Mentorship

- A team of experienced faculty members guide the students throughout the project lifecycle—from conceptual design to final presentation.
- Mentors support technical decisions, project management, and compliance with SAE India guidelines.

3. Financial Assistance

- The institute offers **financial support** through grants or partial funding to cover registration fees, materials, fabrication costs, and travel expenses.

- The college also assists the team in approaching industry sponsors and alumni for additional funding.

4. Academic Flexibility

- Students are provided with **academic support and flexibility** during critical phases of the competition such as design submissions, virtual rounds, and physical events.
- Attendance relaxations or special permissions are granted to help students balance academics and project work.

5. Encouragement and Recognition

- The achievements of the BAJA team are highlighted and celebrated at institutional events, motivating more students to get involved.
- Participation certificates, project credits, and other recognitions are awarded to team members.

6. Industry Exposure

- The college connects the team with **industry experts, alumni, and professional mentors** to provide real-world insights and technical reviews.
- Guest lectures, workshops, and training sessions are arranged to strengthen the team's technical and soft skills.

Through this proactive support system, the college ensures that students not only gain hands-on engineering experience but also develop leadership, problem-solving, and project management skills—making them industry-ready professionals.

Team Aryans Racing – Journey

Since 2011, **Team Aryans Racing** from Government College of Engineering, Aurangabad, has been actively participating in the **SAE BAJA Design Series**. Comprising passionate students from various engineering disciplines, the team has competed with top engineering colleges from across India and abroad.

The BAJA SAE INDIA event, organized by the **Society of Automotive Engineers (SAE INDIA)**, challenges students to design, build, and race an **all-terrain off-road vehicle**. It serves as a platform for applying classroom concepts to real-world engineering problems. Over 120 teams participate annually in a week-long event that includes both static and dynamic rounds.

For over a decade, Team Aryans Racing has proudly represented the college in **mBAJA**, earning a reputation for engineering excellence and teamwork.

A Milestone Year: Entry into E-BAJA

The **2024–25 season** marked a major milestone as the team entered the **E-BAJA category** for the first time, embracing **electric mobility and sustainable innovation**. This debut earned the team **national recognition** and several top rankings, including the prestigious **Best Debutant Team Award**.

The journey began in **May 2022**, with a team of dedicated students setting out to build a **high-performance 2WD electric ATV**, aiming to become **BAJA SAE INDIA 2025 National Champions**. Learning from the analysis of past designs and failures, the team finalized their innovative concept.

In **September 2024**, during the Preliminary Round, the team presented their design and secured an **All India Rank of 5**. By the end of the month, the design was finalized, and the vehicle proceeded to inspection.

Virtual Round Highlights (December 2024)

The second phase included submissions such as:

- **Design Report**
- **CAE Report**
- **Vehicle Simulations** using IPG Carmaker

The team presented their work on design, cost, business model, and simulations to expert panels. Their achievements:

- **Overall Rank**: All India Rank 6
- **Static Events**: All India Rank 6
- **Engineering Design**: All India Rank 2
- **Maneuverability**: All India Rank 5
- **Virtual Dynamics Evaluation (VDE)**: All India Rank 7
- **Overall Dynamics**: All India Rank 6
- **Award**: *Best Debutant Team*

Physical Event (20th–24th February 2025, BVRIT, Hyderabad)

At the final on-site event, the team presented their vehicle to industry experts. The design and execution received high praise for innovation and professionalism.

This exceptional debut in E-BAJA reflects the team's **technical expertise, innovative thinking, and strong commitment**. Team Aryans Racing continues to be a platform for students to gain real-world experience, sharpen their engineering skills, and become **future-ready professionals**.

College Support for Robocon Competition

Government College of Engineering, Aurangabad, actively encourages students to participate in the **ABU Robocon** competition and provides strong support to help them succeed.

1. Robotics Lab and Workspace

- The college offers a **dedicated lab** with tools like sensors, microcontrollers, 3D printers, and other robotic equipment.
- A special workspace is provided for designing, building, and testing robots.

2. Faculty Guidance

- **Faculty mentors** guide the team throughout the project—helping with design, coding, electronics, and strategy.
- Regular meetings and feedback sessions improve the team's performance.

3. Financial Support

- The college provides **financial assistance** for components, registration, and competition travel.
- It also helps in finding **industry sponsors and alumni support**.

4. Academic Flexibility

- Students receive **flexibility in attendance and exams** during important project phases.
- This helps them manage both academics and Robocon work smoothly.

5. Skill Development

- The college conducts **training sessions, workshops, and coding classes** to boost technical skills.
- Students also improve teamwork, leadership, and time management.

6. Encouragement and Recognition

- The team's efforts are appreciated through **certificates, awards, and public recognition** in college events.
- Their work inspires other students to join and learn.

Through this support, the college helps students gain hands-on experience in robotics and prepares them for careers in technology and innovation.

Facilities Offered By College To Team Cybrotics

1.Computer

2.Compresser

3.In DD Robocon especially in tasks involving modeling, simulation, and control system design we use MATLAB

b.Fusion360

"Fusion 360 was used for designing, assembling, and simulating the mechanical components of the robot, enablingprecise modeling, tolerance checks, and generation of fabrication-ready files for 3D printing and laser cutting

PyCharm was utilized as the primary integrated development environment (IDE) for writing, debugging, and managing Python code, ensuring efficient development of control algorithms and serial communication scripts for the robot."

SolidWorks

SolidWorks was used for detailed 3D modeling and assembly of the robot's mechanical structure, allowing accurate simulation of movements, interference checks, and preparation of technical drawings for fabrication

Centre of excellence

Aim and Scope of Project

Centre of Excellence in Thinking Systems for Signal and Image Processing (TSSIP)
Government College of Engineering, Chhatrapati Sambhajinagar (Aurangabad)

In today's digital era, **signal processing** has become a crucial tool in developing advanced technological solutions. With the rise of **artificial intelligence (AI)**, new signal processing techniques and algorithms are enabling the creation of intelligent "**Thinking Systems**."

The **Centre of Excellence (CoE)** in **Thinking Systems for Signal and Image Processing (TSSIP)** aims to develop smart, AI-based systems that can analyze and process signals efficiently. The center focuses on developing cutting-edge algorithms in areas such as:

- **Speech and audio processing**
- **Image and video processing**
- **Biomedical signal processing**
- **Sensor data processing**

These systems will address real-world challenges in fields like data analytics, cognitive speech systems, video surveillance, multimedia forensics, biometric systems, thermographic analysis, structural monitoring, and remote sensing.

The CoE will work on building **prototype hardware and software** to implement these intelligent systems, enhancing the accuracy, speed, and efficiency of tasks such as:

- Noise reduction
- Signal enhancement
- Feature extraction
- Classification

Using advanced AI techniques, the center aims to solve complex signal processing problems that traditional methods cannot address—such as recognizing subtle patterns or processing large, multimodal datasets in real-time.

Institutional Strength and Industry Connect

Government College of Engineering, Chhatrapati Sambhajinagar, has a legacy of over six decades in offering UG, PG, and PhD programs across Civil, Mechanical, Electrical, and Circuit branches like Electronics & Telecommunication, Computer Science, and Information Technology.

The proposed CoE is **interdisciplinary**, involving experts from both circuit and non-circuit domains. The institute already has the **infrastructure, expertise, and experience** to support this initiative.

Additionally, the **Marathwada and North Maharashtra regions** are home to numerous companies and MSMEs that can benefit from this technology. Many of the institute's **MoU partners**, including those with international repute, are already working in AI-based systems and are keen to contribute to this center.

Vision and Impact

The CoE will serve as a **research and innovation hub**, enhancing collaboration between academia and industry. It will:

- Support R&D activities and real-life problem solving
- Empower students and faculty through hands-on experience
- Provide consultancy and training services
- Promote entrepreneurship and innovation

The center also aims to be **financially self-sufficient** by generating revenue through testing, consultancy, training programs, certificate courses, and collaborative business models.

With its strong foundation and strategic direction, the CoE in Thinking Systems for Signal and Image Processing is envisioned to become a **flagship research hub** and a key driver of innovation in the region.

2. Objectives of the COE

§ Develop new algorithms and techniques for machine learning, pattern recognition, and artificial intelligence that can be applied to signal processing problems.

§ Apply these intelligent signal processing techniques to real-world problems in areas such as speech and audio processing, image and video processing, biomedical signal processing, and sensor data processing.

§ Develop hardware and software systems for implementing these intelligent signal processing techniques in practical applications.

§ Improve the accuracy, speed, and efficiency of signal processing tasks such as noise reduction, signal enhancement, feature extraction, and classification using intelligent techniques.

§ Enable signal processing tasks that are difficult or impossible with traditional techniques, such as extracting meaningful features from complex data sources or detecting subtle patterns that are not easily visible to the human eye.

§ Foster collaboration between researchers in the fields of signal processing and artificial intelligence, and encourage the development of interdisciplinary approaches to solving signal processing problems

Brief Outline of the Centre of Excellence (CoE) with Technology Focus

The proposed Centre of Excellence in Thinking Systems for Signal and Image Processing (TSSIP) will be equipped with modern facilities and supported by experts from both academia and industry.

The centre will focus on developing smart technology solutions using:

- Speech and audio processing
- Image and video processing
- Biomedical signal processing
- Sensor data processing

These technologies will help solve real-world problems in areas such as:

- Data analysis
- Cognitive speech systems
- Video analytics
- Digital and multimedia forensics
- Thermographic studies
- Biometric systems

- Structural analysis
- Remote sensing

Fund Received foe Centre of Excellence

	शासकीयअभियांत्रिकीमहाविद्यालयऔरंगाबाद **छत्रपतीसंभाजीनगर**)महाराष्ट्रशासनाचीस्वायत्तसंस्था(स्टेशनरोड ,उस्मानपुरा ,छत्रपतीसंभाजीनगर)महाराष्ट्र(“In Pursuit of Technical Excellence” **É**- office: (0240) 2366101, 2366102, 2366111 **e-mail** – office.gcoeaurangabad@dtemaharashtra.gov.in (mailto:office.gcoeaurangabad@dtemaharashtra.gov.in)**web :** www.geca.ac.in (http://www.geca.ac.in)	

No GECA/ 2025/ Date: 27/03/2025

प्रती,

मा. संचालक,

तंत्रशिक्षणसंचालनालय,

मुंबईमहाराष्ट्र

विषयःशासकीयअभियांत्रिकीमहाविद्यालय,छत्रपतीसंभाजीनगरयेथेथिंकिंगसिस्टमइनसिग्नलअँडइमेजप्रोसेसिंग (TSSIP)चेउत्कृष्टताकेंद्रस्थापनकरण्यासाठीयेणाऱ्याखर्चानिधीउपलब्धकरण्याबाबत

संदर्भ: १)महाराष्ट्रशासनउच्चवतंत्रशिक्षणविभागशासनशुध्दीपत्रककक्रमांक

तवायो-१४२३/प्र.क्र. ८३/**२३**/तांशि-**३**दिनांक: जुलै०७, २०२३

२) महाराष्ट्रशासनउच्चवतंत्रशिक्षणविभागशासनज्ञापनक्रमांकः

तंशिख-१८२३/(प्र.क्र. १८५/२०२३)/तांशि-**३,** दिनांकमार्च०५, २०२४

३)शास.अभियांत्रिकीमहाविद्यालयऔरंगाबादपत्रक्र.GECA/2025/910,दि. 07/03/2025

मा. महोदय,

उपरोक्तविषयीसविनयविनंतीकिवरीलसंदर्भ-१नुसारशासनानेशासकीयअभियांत्रिकीमहाविद्यालयऔरंगाबादछत्रपतीसंभाजीनगरयेथेथिंकिंगसिस्टमइनसिग्नलअँडइमेजप्रोसेसिंग (TSSIP) चेउत्कृष्टताकेंद्रस्थापनकरण्यासाठीमान्यतादिलेलीआहे. प्रकल्पअहवालानुसार, एकूणप्रकल्पखर्च५०५.००लाखरु.इतकाआहे (अनावर्तीखर्च३८५ .०५लाखरु. आणिआवर्तीखर्च१२०.०लाखरु.). प्रकल्पाच्याएकूणखर्चापैकी२२६.२२लाखरु.इतक्याअंदाजितरकमेचीयंत्रसामुग्री, साधनसामुग्री, संगणकसाहित्य, सॉफ्टवेअर, उपभोग्यवस्तू, इत्यादीखरेदीकरण्याचेवउर्वरितनिधीहासंशोधनविद्यार्थ्यांचीशिष्यवृत्ती, राष्ट्रीय / आंतरराष्ट्रीयपरिषदवकार्यशाळाआयोजन, सहभागआणिसादरीकरण, राष्ट्रीय/आंतरराष्ट्रीयवैज्ञानिकमासिकामध्येसादरीकरण,

शैक्षणिकसंस्थाआणिसंशोधनसंस्थांसोबतसंशोधनआणिविकासउपक्रमांसाठीराष्ट्रीय/आंतरराष्ट्रीयसहयोग, वैज्ञानिकस्पर्धाचेआयोजनवसहभाग, संशोधनआणिउत्पादनविकासासाठीउद्योगासहसहयोग, बौद्धिकसंपत्तीहक्क, इत्यादीप्रस्तावितआहे. याअनुषंगाने, संदर्भ-२नुसारशासनानेशासकीयअभियांत्रिकीमहाविद्यालयऔरंगाबादछत्रपतीसंभाजीनगरयेथेथिंकिंगसिस्टमइनसिम्नलअँडइमेजप्रोसेसिंग(TSSIP) चेउत्कृष्टताकेंद्रस्थापनकरण्यासाठीयेणाऱ्याखर्चासप्रशासकीयमान्यतादिलेलीआहे. संदर्भ-२मध्येनमूदकेलेल्यानियमानुसार, यंत्रसामुग्री, साधनसामुग्री, संगणकसाहित्य, सॉफ्टवेअरइत्यादीचीखरेदीप्रक्रियापूर्णकिलीआहे (निविदासोबतजोडलेलीआहे). GeM याकेंद्रशासनाच्यासंकेतस्थळावरूनदोनवस्तूंचीप्रक्रियापूर्णकिलीआहेआणिउर्वरितवस्तूंचीउपलब्धताGeM याकेंद्रशासनाच्यासंकेतस्थळावरनसल्यामुळे, शासनमान्यतेनुसारe-Tendering द्वारेकरण्यातआलीआहे.

Sr.No.	Etender No.	Purchase Order No.	Sr.No. in Admin. Approval	Title of Equipments/Items	Amount)in Lakh)	Remark
01	2025_DTEDM_1158905_1	GECA/COE/2025/654Dated : 14/02/2025	1	Drone with Thermal Camera	17.0	Equipments yet to receive
			15	High Speed Camera		
			16	3D Camera		
02	2025_DTEDM_1138715_1	GECA/COE/2025/655Dated : 14/02/2025	4	Drone with RGB and Multispectral Sensor	59.0	-“-
			6	Hyperspectral Sensor		
			17	3D LiDAR Sensor		
03	2025_DTEDM_1138746_1	GECA/COE/2025/806Dated: 28/02/25	3	Spectroradiometer	74.99	Equipments Received, Installation Completed
04	2025_DTEDM_1139892_1	GECA/COE/2025/805Dated: 28/02/25	23	Server	62.55	Equipments Received, Installation Completed
			24	Laptop		
			25	Workstation		
05	GEM	GEMC-511687711967708 Dated : 03/09/2024	26	5KVA UPS with tubular batteries	4.99	Equipments Received, Installation Completed
06	GEM	GEMC-511687711967708 Dated : 03/09/2024	28	Wireless, color, All-in-one print-copy-scan laser printer(01)	0.49	Equipments yet to receive

No. of Equipments/Items	**12**	Total Cost	**219.02**	

सोबतसदरथिंकिंगसिस्टमइनसिग्नलअँडइमेजप्रोसेसिंग (TSSIP) उत्कृष्टताकेंद्रामध्ये२०२५ -२६याशैक्षणिकवर्षात०२पूर्णविळसंशोधनविद्यार्थीघेण्याचेप्रयोजितआहे. संदर्भ-२नुसारत्यांचेपाठ्यवेतनमासिकरु. ३०,०००.००इतकेआहे. वरीलमाहितीवरआधारितखर्चाचासारांशखालीलप्रमाणेआहे.

क्रमांक	आवर्तीवअनावर्तीखर्च	विवरण	मागणीरक्कम शैक्षणिकवर्ष२०२५ -२०२६)रुपये(
१	अनावर्तीखर्च	यंत्रसामुग्री, साधनसामुग्रीसंगणकसाहित्यइत्यादिचीखरेदी	२१९०२०००.००
२	आवर्तीखर्च	०२पूर्णविळसंशोधनविद्यार्थीपाठ्यवेतन	७२०००.००
		एकूण	२२६२२०००.००

शासकीयअभियांत्रिकीमहाविद्यालयऔरंगाबादछत्रपतीसंभाजीनगरहीमहाराष्ट्रशासनाचीस्वायत्तसंस्थाआहे.सदरसंस्थेमध्येनियामकमंडलगठितआहे,म्हणूनसदरसंदर्भ-२नुसाररुपये२२६२२०००.००इतकानिधीवितरितकरण्यास्तवविनंतीकरण्यातयेतआहे.

आपलाविश्वासू

Sd/---

(डॉ. संजयडंभारे)

प्राचार्य

Workshop arranged under Centre of Excellence

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGG

Centre Of Excellence (TSSIP)

One-Day Workshop on IOT SYSTEMS & AI

GECA/E&TC/2025/59

E&TC/COE-TSSIP/IOT-ws/2025
Date : 28/03/25

NOTICE :

The One-Day Workshop on **IOT SYSTEMS & AI** is being organized by the Centre Of Excellence (TSSIP), Dept. of Electronics and Telecommunication Engg on 29/03/25 during 10.30 -5.30 pm.

Following faculty and staff members shall work for the smooth conduction of the same.

S.No.	Name	Designation	Remark
1	Dr. S.R. Hirekhan	Associate Prof. & Head	Convener
2	Dr. S.S. Agrawal	Associate Professor	Co-convener
3	Dr. K.S. Sharma	Adjunct Professor	Coordination with the Resource Person
4	Shri G.P. Lakkas	Lab Assistant	Venue arrangement, Documentation

Head Of the Dept

Copy to : (For information)

The Principal
Govt. College of Engineering Aurangabad
Chh.Sambhajinagar

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
2022-23(CAYm2)	360	18	14	9	72
2023-24(CAYm1)	360	18	14	16	80
2024-25(CAY)	360	18	10	12	58

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 2024-2025	Actual Expenses in 2024-2025 till	Budgeted in 2023-2024	Actual Expenses in 2023-2024 till	Budgeted in 2022-2023	Actual Expenses in 2022-2023 till	Budgeted in 2021-2022	Actual Expenses in 2021-2022 till
Infrastructure Built-Up	73775000	56122000	12550000	9989000	285850000	3845000	24700000	4951000
Library	6410000	5462000	5100000	6920000	6300000	1319000	16000000	15025000
Laboratory equipment	21900000	20000000	22172000	19520000	28134000	10766000	44470000	22066000
Teaching and non-teaching staff salary	268625000	268625000	269919000	269919000	260612000	260612000	255149000	255190000
Outreach Programs	1500000	956000	1100000	850000	705000	641000	650000	543000

R&D	9010000	8379000	4625000	1142000	10000000	8525000	21000000	5577000
Training, Placement and Industry linkage	2050000	1350000	4595000	3277000	8200000	7225000	12000000	6125000
SDGs	520000	298000	450000	340000	350000	218000	300000	179000
Entrepreneurship	2195000	1715000	1845000	800000	2000000	1500000	1800000	1288000
Others, specify	152920000	14108000	113715000	44437000	53676000	39203000	642000	48830000
Total	**538905000**	**377015000**	**436071000**	**357194000**	**655827000**	**333854000**	**376711000**	**359774000**

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 2024-2025**	**Actual Expenses in 2024-2025 till**	**Budgeted in 2023-2024**	**Actual Expenses in 2023-2024 till**	**Budgeted in 2022-2023**	**Actual Expenses in 2022-2023 till**	**Budgeted in 2021-2022**	**Actual Expenses in 2021-2022 till**
Laboratory equipment	2000000	1890000	3550000	3070000	25000	22000	1550000	1450000
Software	150000	100000	410000	310000	55000	50000	350000	305000
SDGs	30000	20000	260000	200000	20000	18000	10000	5000
Support for faculty development	750000	690000	1380000	1100000	150000	100000	1050000	85000
R & D	2540000	2210000	3090000	2780000	700000	680000	2550000	2190000
Industrial Training, Industry expert, Internship	940000	650000	2258000	2290000	950000	790000	1050000	840000
Miscellaneous Expenses*	1500000	1222000	2580000	2350000	100000	90000	640000	590000
Total	**7910000**	**6782000**	**13528000**	**12100000**	**2000000**	**1750000**	**7200000**	**5465000**