



Shiksha Mandal's

# Bajaj Institute of Technology

(A Hindi Linguistic Minority Institute)

Approved by AICTE, DTE and Govt. of Maharashtra; DTE Code – 04649

Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere, Dist. Raigad.



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## Annual Report 2025 -26

**Subject No. 1 : Important Letters received from Govt / University / DTE / AICTE / Shiksha Mandal and Action Taken.**

1. **Dr. Babasaheb Ambedkar Technological University, Lonere.**

Letter No. DBATU/AFFIL/2025-2026/1189 Dt. 13/06/2025.

Subject : Continuation of Affiliation for the Academic Year 2025-26.

**Subject No. 2 : Admissions, Average % of incoming students, Declared Results analysis for 2024-25, 2025-26 and action taken.**

The statistical data of admission of students in 2025-26 is as under...

### A. Admissions 2025-2026 :

Branch	FIRST YEAR				
	Intake	Admission	Percentage	HSC Percentage	
				Highest	Lowest
Civil Engg.	60	60	100.00	76.83	44.17
Computer Engg.	120	120	100.00	85.50	43.33
Electrical Engg.	60	60	100.00	88.00	44.17
Mechanical Engg.	60	60	100.00	84.83	42.67
<b>TOTAL</b>	<b>300</b>	<b>300</b>			

Branch	DIRECT SECOND YEAR				
	Intake	Admission	Percentage	Diploma Percentage	
				Highest	Lowest
Civil Engg.	12	12	100.00	81.68	65.11
Computer Engg.	14	14	100.00	88.15	69.20
Electrical Engg.	9	9	100.00	84.72	73.89
Mechanical Engg.	9	8	89.00	85.85	70.26
<b>TOTAL</b>	<b>44</b>	<b>43</b>			

## B. Results analysis for 2024-25.

Sr. No.	Branch	Semester V			Semester VI			Semester VII			Semester VIII		
		No. of students appeared	No. of students passed	%	No. of students appeared	No. of students passed	%	No. of students appeared	No. of students passed	%	No. of students appeared	No. of students passed	%
1	Civil Engg.	62	28	45%	62	56	90%	53	41	78%	53	46	87%
2	Comp. Engg.	137	118	86%	137	115	84%	133	117	88%	133	133	100%
3	Elect. Engg.	67	39	58%	67	55	82%	64	64	100%	64	64	100%
4	Mech. Engg.	63	53	84%	63	56	89%	48	43	90%	48	47	98%

### Subject No. 3: Achievements of students in academic & extracurricular activities.

- Ms. Anushka Tiwari, a final-year Computer Engineering student, secured the First Prize in the prestigious national-level Women's Day Hackathon 2025 organized by Revature. She was awarded an Apple laptop worth ₹1 lakh.
- Electrical Engineering students - Purva Dahake (Team Leader), Sakshi Chafle, Sarthak Nagose, Saurabh Chandankhede and Vedant Mahajan - won the First Prize at Techzibition 2025, IIT Roorkee's premier national-level exhibition.
- Students of final year, Gunjan Waghmare and Prathmesh Wazarkar, advanced to the final round of the prestigious FANUC Robotics Olympiad 2025. The duo ranked among the top 14 teams from 12 institutions nationwide after clearing three tough rounds, including simulations using FANUC Roboguide software.

### Students' Achievements:

#### A. Department of Civil Engineering:

##### 1. Smart India Hackathon 2025: (National level) :

Sr. No.	Team Name	Name of Students	Mentor/s	Topic	Remark
1	NEPHRON	Aaryan Bais	Dr. Harshad Phadke and Dr. Vikas Thakur	"Design of Seismically Stable Dialysis Unit"	<b>WINNER - Grand Finale - SIH 2025</b>
2		Prathamesh Petkar			
3		Shrutika Bhagat			
4		Durgeshwari Deodhagale			
5		Saksham Deshmukh			
6		Yash Bhure			
7	SOIL PROTECTORS	Anuja Moon	Dr. Ram Wanare	"Development of Sustainable Material for Crack Mitigation and Disaster Management"	<b>Finalist - Grand finale - SIH 2025</b>
8		Bhushan Mude			
9		Vrushabh Teltumbde			
10		Prajwal Borkar			
11		Prachi Dnyanbonwar			
12		Sanika Agarkar			

## 2. Participation in DIPEX 2026 (State Level) :

Sr. No.	Team Name	Name of Students	Mentor	Topic	Remark
1	SOIL PROTECTORS	Mehar Wagh	Dr. Ram Wanare	Development of sustainable material for Crack Mitigation and disaster management	Winner
2		Lokesh Kadam			
3		Bhushan Patne			
4		Sandesha Chaudhari			
5		Khushiya Bijwar			
6		Nikita Charde			

## B. Department of Computer Engineering :

### Project Competitions – Summary

Sr. No	Competition Name	Prize/ Achievement
1	Smart India Hackathon	<ol style="list-style-type: none"> <li>1. Team TechPravaha won the 1st Prize in the Software Edition, and a cash award of Rs. 1.5 Lakh.</li> <li>2. Three teams (18 students) were selected for Grande Finale of SIH 2025 (2 Software Team &amp; 1 Team Hardware edition)</li> </ol>
2	India International Science Festival (IISF) 2025	<ol style="list-style-type: none"> <li>1. 3 Teams won a prize of Rs. 20000/- each and an opportunity of internship with CSIR Labs. (Info. yet to receive)</li> <li>2. 6 Teams (18 students) were selected for grande finale from the department. (Only 50 Teams were selected across India for hackathon)</li> </ol>
3	Avishkar 2025-26	<ol style="list-style-type: none"> <li>1. Winner, 3rd prize in the University-Level Avishkar Competition (Commerce, Law &amp; Management category), representing DBATU at the state level.</li> </ol>
4	L&T Techgium	<ol style="list-style-type: none"> <li>1. One Team (3 Students) is selected as a Finalist (Top 30) among 62,600 participants from 540 colleges.</li> <li>2. The team will be awarded with internship and placement opportunities. (May 2026)</li> </ol>
5	Tata Elxsi TELIPORT Season 3	<ol style="list-style-type: none"> <li>1. One Team (3 Students) is selected for the second round among the top 73 teams (from 18,000 teams); awarded a PPI opportunity with Tata Elxsi.</li> </ol>

### External Certifications (Pearson Vue Proctored Exam Certifications)

- 4 final year students completed the **Global certification for AWS Cloud Associate**
- 10 final year students completed **Global Oracle certification on AI and DevOps.**

### **C. Department of Electrical Engineering :**

- Ms. Sanchita Kurwale, second year student won First Prize in Avishkar competition organised by DBATU. (state level).
- Mr. Saurav Shrivastava, Mr Prathamesh Kinhekar, Ms Nidhi Rathod, Mr Hardik Zapate, Ms Tejaswini Mehar and Mr Yash Zade Students were in Smart India SIH-2026 Final under the Guidance of Dr S P Pachpor.
- Mr Onkar Kale, Mr Aryan Kathane, Tanvi Deshmukh, Mr Uday Pande, Ms Vaisnavi Yelne, Mr Prathamesh Punwatkar Students were SIH-2K26 Finalists under the Guidance of Dr Partha S Subudhi.
- Ms Sanchita Kurwale, Mr Yuraj Kuhikar, Mr Karan Mendhe, Mr Aditya Dhage, Mr Om Kukutkar, Mr Aniket Wadafale were Finalist in SIH-2K26 under the guidance of Dr Partha Sarathi Subudhi
- Ms Aastha Shende, Mr Sutikshna Dhage, Won National Competition for innovative experiments in Physics (NCEIP-2025) organized by School of Applied Science in Physics, Goa.

### **D. Department of Mechanical Engineering :**

#### **National SIH Finalists :**

#### **1. Name of the Team : DriveIQ**

Name of Team Members:

Manthan Rajabhau Ghodmare, Priti Bastewar, Prathamesh Kale, Nikhil Hiware, Tanvi Kanode, Anish Yadav, Manasvi Khangar

Name of Mentor : Dr. Manish Pasarkar

#### **2. Name of the Team : SortWaste**

Name of Team Members:

Shruti khedkar, Sahil Bhandarkar, Manthan Deshmukh, Ritesh Wani, Vidhan Bhagat, Mukul Bhandekar,

Name of Mentor : Mr. Ranjit Katkar

Name of Co- Mentor : Mr. Santosh Kumar.

### **Subject No. 4 : Achievements of College Teachers and Non-teaching staff.**

#### **Paper Presentations by Faculty Members :**

- Dr. Deepak Bhoje, Damaged Skull Prototyping using artificial intelligence Techniques : A review, International Conference on Joint innovations in sustainable Engineering, Project management and new transformations in Computing and Communication, AIP conference Proceedings', 2<sup>nd</sup> May 2025, Scopus Indexed.
- Dr. Snehal Pachpor "Design and Analysis of a double-sided LIM, Journal ID : AES-19-08-2025-04, Volume No 52, Issue-2, 5<sup>th</sup> August 2025 Scopus Indexed.
- Dr. Vivek Bhusari, "Synthesis and Photoluminescence in K<sub>5</sub> La (MoO<sub>4</sub>: Ln<sub>3</sub> + (Ln = Tb, Er) Green- Emitting Phosphor for Optoelectronics Applications". Journal of Electronic Material, Vol No 54, Page No. 9088-9098 August 2025 Scopus Indexed.

- Dr. Nisha Thakur, Performance of Eco-Sustainable Geo-polymer Mortar with Neem Fibre”. ELSEVIER Journal of Structural Integrity (SIIMCES-2025) Procedia, Scopus Indexed.
- Dr. Nisha Thakur, Seismic Behavior of Steel-braced RC frames in seismic zone IV, 5<sup>th</sup> International Structural Integrity Conference and Exhibition (SICE 2024), ELSEVIER Procedia, Vol No 71, 2452-3216. Scopus Indexed.
- Dr. Partha Sarathi Subudhi, “Investigation of Magnetic and Optical Characteristics of MgFe<sub>2</sub>O<sub>4</sub> and MgFe<sub>2</sub>-xBi<sub>x</sub>O<sub>4</sub> Nanoparticles Synthesized by Combustion Method”, Journal of Electronic Materials, Vol. 54, pp. 7434–7447, Scopus Indexed.
- Dr. Jayesh Ruikar, “MULF RR-IQA : Multi-feature based reduced reference image Quality assessment”, Seventh International ELSEVIER Conference on Recent Trends in Image Processing and Pattern recognition (RPIP2R), Proceeding Computer Science 260 (2025) P No 1034-1042.
- Dr. H. S. Dalvi, Mr. A. M. Marothiya, Mrs. Kirti Madan “Intelligent EV Charging Algorithm”, 12<sup>th</sup> National Power Electronics IEEE Conference (NPEC 2025), NIT Calicut. Accepted on 3<sup>rd</sup> August 2025. Scopus Indexed.
- Dr. Suraj Vairagade “Investigation of stretchable conductive composites developed using thermoplastic polyurethane / Multi-walled carbon Nanotubes / Graphene for enhanced thermal management Taylor and Francis, 4<sup>th</sup> June 2025 SCI Indexed.
- Dr. Roshan Marode, “Enhancing micro hardness and tensile strength of in-process cooled Al-7075-T651 FSAM laminates without compromising ductility through PWHT” Journal of Advanced Joining Processes Elsevier, Volume 11, June 2025, 100304 SCI Indexed.
- Dr. Roshan Marode, “A Critical Review on the Comprehensive Assessment of Supersonic Separator Technologies for Enhanced Gas Processing and CO<sub>2</sub> Removal Efficiency” Journal of Results in Engineering, Elsevier, Volume 28, 16<sup>th</sup> September 2025, 106-923 SCI Indexed.

**BOOK Chapter ( Number of Staff :-Two (02) Authors’ ) :**

**Author : Ram Wanare**

- Effect of Sustainable Stabilization on Cracking Characteristics of Marine Soil, Proceedings of the Indian Geotechnical Conference (IGC 2024, Vol. No 626, Springer Singapore, Scopus Indexed.

**Author : Dr Roshan Marode**

- Comparative Study of Hybrid Vehicles with Traditional Vehicles, Taylor and Francis, CRC Press Scopus Indexed 2025.

**Ph.D. Completed by Faculty Member (one Faculty member) :**

- Dr. Amol Jumde Completed Ph.D. in Computer Science and Engineering from VNIT, Nagpur.

**Ph.D. Approved Guide :**

- Dr. L. N. Rao was recognized as a registered Guide for seeking candidates in Ph.D. in Engineering and Technology, Dr. Babasaheb Ambedkar Technological University, Lonere

**Granted Patents :**

- Dr. H. S. Dalvi (Indian Design Registration)  
Application No. 453870-001  
Date of Granting : 25/06/2025
- Dr. Snehal Pachpor (Indian Design Registration)  
Application No. 457204-001  
Date of Granting : 30/04/2025
- Dr. Jayesh Ruikar (German Patent)  
Publication No. 20202510065  
Date of Granting: 10/04/2025

**Faculty Development Program / Training Program attended by Faculty Members. :**

- Dr. Suraj Vairagade attended Program on Orientation and Sensitization (Under NEP 2020) at Indian School of Mines, Dhanbad from 21<sup>st</sup> July to 2<sup>nd</sup> August 2025.
- Dr. Roshan Marode attended Refresher Course of 12 days at IIT, Dhanbad under Malviya Mission Teachers Training Program 2025 Current Trends in Metal Additive Manufacturing from 7<sup>th</sup> to 18<sup>th</sup> July 2025.
- Dr. Roshan Marode Attended Online one day Faculty Development Workshop on Dassault systems Design and Simulation Platforms on 26<sup>th</sup> July 2025.
- Dr. Roshan Marode attended Two weeks FDP on Future Prospects of Green Technologies with AI and ML Applications from 14<sup>th</sup> July to 25<sup>th</sup> July 2025 at NIT, Patna.

- Dr. Roshan Marode attended Two weeks FDP on Advanced Materials for Emerging Technologies : Trends and Applications at Presidency University, Bengaluru 23<sup>rd</sup> to 28<sup>th</sup> June 2025.
- Dr. Roshan Marode attended Refresher Course of 12 days at IIT, Dhanbad under Malviya Mission Teachers Training Program 2025 “Recent Advances in Smart Materials for Energy, Environment and Biomedical Applications from 1<sup>st</sup> August to 12<sup>th</sup> August 2025.
- Mr. Rushikesh Pradhan participated in Two weeks Online FDP on AI for Teaching and Learning organised by ICT academy supported by Meity and IIT, Guwahati.
- Dr. Kantilal Joshi Completed Course on Active Energy Efficiency Using speed Control organised by Schneider Electric Ltd.

### **NPTEL Online Course Completion Certificate**

- Mrs. Kirti Madan was awarded course completion certificate of Microprocessors and Microcontrollers by NPTEL, Skill India in Elite class.

#### **1. Department of Civil Engineering :**

- International Conference – 1 no. (Mr. D.G. Mangrulkar)
- SCOPUS – Book Chapter – 1 no. (Dr. Ram Wanare)

#### **2. Department of Computer Engineering :**

1. Mr. Vikas Palekar was awarded PhD in Computer Science and Engineering.
2. Research Papers Published :
  - Mrs. Sheetal Arvikar – 1
  - Mr. Ajay Kumar Sahu – 1

#### **3. Department of Electrical Engineering :**

##### **Research papers :**

<b>Sr. No.</b>	<b>Name of Faculty</b>	<b>Journal/Conference/Book/ Book Chapter</b>	<b>Number of papers</b>
1	Mr Anirudha Marothiya	Journal (SCI)	2
2		Conference (IEEE)	1
3	Dr Partha Sarathi Subudhi	Journal (ESCI)	1

#### **Patent / Design Registration : 01**

- Dr H S Dalvi Design Registration No. :- 453870-001  
Date of Reciprocity / Granting :- 01/04/2025

#### 4. Department of Mechanical Engineering :

S. No.	Name of Faculty Member	No of Research Papers/Book Chapters Published
1.	Dr. Bopche	Research Paper/s : 01 Book Chapter : 01
2.	Mr. Santosh Kumar	Research Paper/s : 01
3.	Dr. Vairagade	Research Paper/s : 02 Book Chapter : 01
4.	Dr. Marode	Research Paper/s : 05 Outstanding paper award from Journal of Magnesium & Alloys by Elsevier

#### Subject No. 5 : New staff appointments

Following faculty members are newly joined the institute.

Sr. No.	Name of Employee	Designation	Date of joining
1	Dr. Roshan V. Marode	Assistant Professor in Mech. Engg.	2/06/2025
2	Mr. Rushikesh S. Pradhan	Asst. Professor in Mathematics	11/06/2025
3	Ms. Janhavi A. Wanjari	Assistant Professor in Humanities and Social Sciences	20/09/2025
4	Ms. Shraddha Kumari Agrawal	Assistant Professor in Humanities and Social Sciences / Training and Placement Coordinator	7/03/2026

#### Subject No. 6 : Court Cases and their present status if any.

At present there is no court case.

#### Subject No. 7 : Academic / Administrative improvements during the last 2 years and plans for the next 2 years

##### A) Academic :

1. More focus on project based learning is emphasized. Students are made to work on applicability projects.
2. For continuous assessment, various rubrics have been prepared and students performance on these rubrics is assessed to a lot the marks out of 20.
3. 1 more smart board and 6 new smart projectors have been purchased and commissioned to implement teaching-learning process more effectively.
4. Contents beyond syllabus are stressed to improve practical knowledge of students with the focus on making them industry ready. Reading habit and mini projects activities have been triggered to improve the technical skills of students.
5. Add on courses and Value Added programs are run by each department to make the students industry ready.
6. Internship performance Evaluation and Employers' feedback process is in process for obtaining the feedback of students undergoing internships and working with the Industries.
7. Strict measures for increasing the attendance of students are being taken.

##### B) Administrative :

1. Administration is decentralized. Beside Heads of the departments, Training and Placement Head, IQAC and NAAC Coordinators have been appointed. Various committees have been constituted for students and institutional development.
2. Academic Audit is carried out thrice in each academic year and also by the external experts, which are two professors of Visvesvaraya National Institute of Technology, Nagpur.
3. RWorks ERP software has been procured and last 5 years data has been entered.
4. Accounts and finance section and Students' section has been provided additional 2 employees each so that the work can be divided and channelized.

**C) Plans for the next 2 years :**

The plan for next 2 years are as follows :

1. Development of online teaching facility with video recording & smart boards.
2. Installation of all required laboratory equipments and software for students' practical training.
3. Developing contacts with industries for sending students on internships and for placements.
4. Training students and preparing them for aptitude tests for better campus placements.
5. Exploring many opportunities for students placements. There shall be rigorous efforts for first two batches as this will form the rapport with industries.
6. Preparing students for participating in National Hackathon Competitions and other technical competitions in reputed Institutes.
7. In pursuit of making students industry ready, arranging industry experts' lectures, projects and activity based learning, internships involving projects.
8. Efforts will be taken to fulfil all formalities for accreditation of the Institute.
9. Staff development by sending them for Industrial training.

**Subject No. 8 : Capital expenditure for FY 2025-26, 2026-27 Actual for FY 2024-25.**

Sr. No.	Particulars	Actual Expenditure	Planned Expenditure	
		2024-25	2025-26	2026-27
1	Computers	---	---	3,50,000
2	Equipments:			
	Laboratories Equipments	74,013	15,08,000	6,55,000
	Other Equipments	5,99,579	82,500	3,60,000
3	Furniture	18,39,890	2,46,700	65,000
4	Library Books	2,46,572	2,50,000	3,00,000
5	Sports Facility	---	2,00,000	2,00,000
	<b>Total</b>	<b>27,60,054</b>	<b>22,87,200</b>	<b>19,30,000</b>

**Subject No. 9 : Compliances / Pending final objections of Audited Accounts for previous**

year if any.

All the objections on the Account Statements of 2024-25 are rectified.

**Subject No. 10 : Outstanding Advances on 30/09/2025.**

Sr. No.	Particulars	As on 30/09/2025
1	NSS Cell expenses receivable from DBATU	41,774
	<b>Total</b>	<b>41,774</b>

**Subject No. 11 : List of Liabilities on 30/09/2025.**

No any liability is pending on 30/09/2025.

**Subject No. 12 : NAAC / NBA : Status, IQAC Report for the Year, Issues.**

On the basis of the report of peer team of National Assessment and Accreditation Council, "A Grade" certificate with a CGPA of 3.13 is sent to Bajaj Institute of Technology, Wardha. The Grade is valid for a period of 5 years from 30<sup>th</sup> June 2024. AQAR for 2025-26 will be filed by 30<sup>th</sup> of November. Institute has also applied for NIRF ranking this year.



**Dr. Narendra Kanhe**  
**Principal**

Shiksha Mandal's  
Bajaj Institute of Technology, Wardha.

*PRINCIPAL,*  
*Bajaj Institute of Technology,*  
*PIPRI, Wardha.*