



Estd. 2006

Jagdamba Education Society's
S. N. D. College of Engineering & Research Center, Yeola

Approved by AICTE & Govt. of Maharashtra | Affiliated to SPPU Pune

Accredited by NAAC, ISO 9001:2005 Certified

DTE CODE:5124



MECHANICAL ENGINEERING DEPARTMENT

NEWS LETTER

MECH ARENA 2022-23 SEM II, Volume 05



*Mechanical Engineering
Vol 05*



Institute Vision

To create multifaceted engineers ready to serve the nation and the world.

Institute Mission

To use value based universal education of engineering and technology to develop the nation for global competitiveness and to bring harmony to mankind.

Institute Quality Policy

The Institution tries to excel in imparting quality professional education that is inculcated with moral, ethical and spiritual values to engineering and management students to make them globally competent.

Department Vision

“To be regionally nationally and internationally recognized in providing mechanical engineering education, leading all-qualified engineers who are innovative, immediate contributors to their profession and successful in advanced studies.”

Department Mission

- To educate and prepare individuals for leadership in industry, government, and educational Institutions: to advance the knowledge base of the mechanical engineering profession and to influence-the-future directions of the mechanical engineering education and practice.
- Respond effectively to the needs of the industry and changing world and to provide quality education in mechanical engineering stream to meet the challenges of the country.
- To create an environment of lifelong learning through innovations, research and development
- To motivate the students and faculty for ethical practices.



Program Specific Outcomes (PSOs)

PSO-01: Understand, plan, analyses, design and execution of buildings and infrastructures such as residential, public, industrial and irrigation structures, transportation facilities, powerhouses respectively.

PSO-02: Make use of management tools, optimization and leadership techniques to complete the civil engineering projects within stipulated time and funds.

PSO-03: Contribute to the society for sustainable development through environmental awareness and upholding professional ethics.

Program Outcome (PO)

PO-1 Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering Programs.

PO-2 Problem analysis: Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO-3 Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO-4 Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO-5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

PO-6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO-7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO-8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO-9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO-10 Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.



PO-11 Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO-12 Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.



**Patrons****Hon. N. B. Darade****Hon. K. B. Darade****Hon. L. B. Darade****Hon. R. L. Darade****PRINCIPAL MESSAGE**

Dear friends! We welcome you to SND, to an intensified time of informed quest. We at SND believe that the path to success lies in accepting challenge as opportunities for growth. Our institution inculcates the journey of hard work and diligence amongst its students enabling them to overcome obstacles in the journey of their future lives with dignity and poise. The essential quality developed in an engineering graduate at SND is to possess the ability for effective problem-solving. Also, the softer but crucial aspects of engineering are “character” or “attitude” building. Development mind-set for holistic, systemic thinking and recognizing skills for administration; all these in addition to the conventional inputs towards development of analytic, rational skills. Recognizing the primary accountability of an adult student for learning, and day-to-day problems each students is mentored by a Teacher Guardian and the institution has a full-fledged Dean of Academic Affairs.

As a young Institution we have miles to go. A new workshop and Hostel complex is coming up in the College Campus itself along with indoor and outdoor facilities for sport and games. I am also proud of the great team we have in the institute. In the short span time SND COE & RC has strived not only to give the best engineering education to our students under some of the most erudite and well-respected faculty, but also to integrate their knowledge in excellently equipped laboratories, through individual project, and by sending them out for interactive field work in industries during their higher semesters. The academic professionalism the members of faculty demonstrate is remarkable. I sincerely look forward to the day we meet.



Dr. D. M. Yadav
Principal
SND College of
Engineering & Research
Centre





HOD MESSAGE

Welcome to the Department of Mechanical Engineering at SND College of Engineering and Research Center, Yeola. We started our journey in the year of 2006 over the last decade, we have grown our expertise & competence in the core mechanical engineering curriculum & Research.

Our department is running undergraduate and postgraduate program in mechanical engineering. At the postgraduate level, we offer M. E. (Design). The sanctioned students' strengths of B.E. and M. E. (Design) are respectively 120 and 18 per year.

At present the department is Well Equipped with all laboratories & Our department features state-of-the-art infrastructure including well-developed laboratories for core courses like Fluid Mechanics & Machinery, Industrial Fluid Power, Thermal Engineering, Power Engineering, Refrigeration and Air-conditioning, etc. It also features a full-fledged workshop which can Done to students' knowledge and hands-on skills related to manufacturing. Students can learn modern software related to drafting, modelling and analysis, which are nowadays a pre-requisite in industry through our CAD laboratory.

Our Department has a distinguished record in both teaching and research faculty members Have excellent academic credentials & are high regarded. They continuously update themselves to the latest trends by attending faculty development programs, industrial trainings and workshops. They have published research papers in national and international reputed journals and conferences. I would like to take this opportunity and appeal to all students to start their bright engineering career right after 12th standard by joining BE (Mechanical) course! Wish you all the very best our department always looks forward to contribute in the solving technical challenges of the industries as well as society with active petrification at all section.



Dr. Harjit U. Pawar
HOD Mechanical
SND College of
Engineering & Research
Centre



**FacultyList**

Sr. No.	Name of Staff	Designation	Qualification	Research Area	Experience
1	Dr. H. U. Pawar	Ph.D.	HOD & Associate Professor	Quality Management	17.6
3	Prof. G. J. Pathak	ME	Assistant Professor	Thermal Engineering	16.6
4	Prof. A. R. Nikam	ME	Assistant Professor	CAD/CAM	15.6
5	Prof. S. S. Aher	ME, Ph.D. (Pursuing)	Assistant Professor	Electric Vehicles	13.6
7	Prof. V. D. Londhe	ME	Assistant Professor	Manufacturing	13.6
8	Prof. A. P. Ghodke	ME, Ph.D. (Pursuing)	Assistant Professor	Engineering Metallurgy	12.6
9	Prof. H. R. Aher	ME, Ph.D. (Pursuing)	Assistant Professor	Mechanical Vibration	12.6
10	Prof. V. R. Thakare	ME	Assistant Professor	Manufacturing	12.6
11	Prof. P. S. Baravkar	ME, Ph.D. (Pursuing)	Assistant Professor	Manufacturing	12.6
12	Dr. H. S. Rane	Ph.D.	Associate Professor	Mechanical Vibration	10.6
13	Prof. B. S. Dange	ME	Assistant Professor	Thermal Engineering	10.6
14	Prof. S. G. Sawant	ME	Assistant Professor	Thermal Engineering	10.6
15	Prof. S. A. Dharam	ME	Assistant Professor	Design Engineering	10.6
16	Prof. M. S. Deshmukh	ME	Assistant Professor	Tribology	9.6
17	Prof. D. P. Kshirsagar	ME, Ph.D. (Pursuing)	Assistant Professor	Nano Technology	9.6
18	Prof. T. V. Gujrathi	ME	Assistant Professor	Engineering Metallurgy	8.6



Sr. No.	Name of Staff	Designation	Qualification	Research Area	Experience
19	Prof. Taksande	ME	Assistant Professor	Numerical Methods	6.6
20	Prof. Pagare	ME	Assistant Professor	Fluid Power	6.6
21	Prof. Bhagwat	ME	Assistant Professor	Composite Materials	5.6
22	Prof. Gore	ME	Assistant Professor	Operation Research	4.6
23	Prof. N. G. Chaudhari	ME	Assistant Professor	Design Engineering	3.6
24	Prof. Asude	ME	Assistant Professor	Production Management	3.6
25	Prof. R. W. Nile	M. Tech.	Assistant Professor	Thermal Engineering	1.6
26	Prof. S. B. Thore	ME*	Teaching Assistant	Design Engineering	2



Courses Offered

UG

Course Name	Intake	Code
Mechanical	120	512461210

PG

Course Name	Intake	Code
Design Engineering	18	512460110



DEPARTMENTAL PORTFOLIO

Dr. Harjit U. Pawar	HOD
Prof. A. P. Ghodake	Academic Dean
Prof. S. S. Aher	AMC Member
Prof. V. R. Thakare	Sports & NSS Coordinator
Prof. A. R. Nikam	Exam Coordinator

Value added Programs:-

Technology Based Training & Learning. One of our key areas of focus is promoting skill development of students & faculty as per the current requirements of the industry.



Department Highlights:-

The department aims at promoting latest technologies in Mechanical Engineering in order to serve the needs of industry, government, society, and the scientific community. The department is actively involved in industrial training, research and other professional activities. Department has taken initiatives to roll out value addition programs to make sure the students gain practical exposure as per the need of the Industry.

Highly Qualified & Research Oriented Faculty

Industry oriented learning through Technology Groups

Excellent infrastructure & computing facilities

Excellent placement records

Strong Alumni & industry Interaction. Our Alumni are working in top MNC's of world.

Well defined student mentoring process

Excellent academic results

Strong focus on placement preparation & continuous assessment

Showcase of Student's innovative working project models.

Research orientation for both faculty & students.

Focus on programming hands-on

Motivation for Self learning initiatives

Monthly coverage of student articles & department activities through MECH-ARENA

Well defined teaching-learning process with use of technology based teaching methodologies

Orientation programs for students

National & International level Engineering activities

Enough opportunities for all round development of students through engineering activities under student chapters & clubs

**Enrolled Student Count**

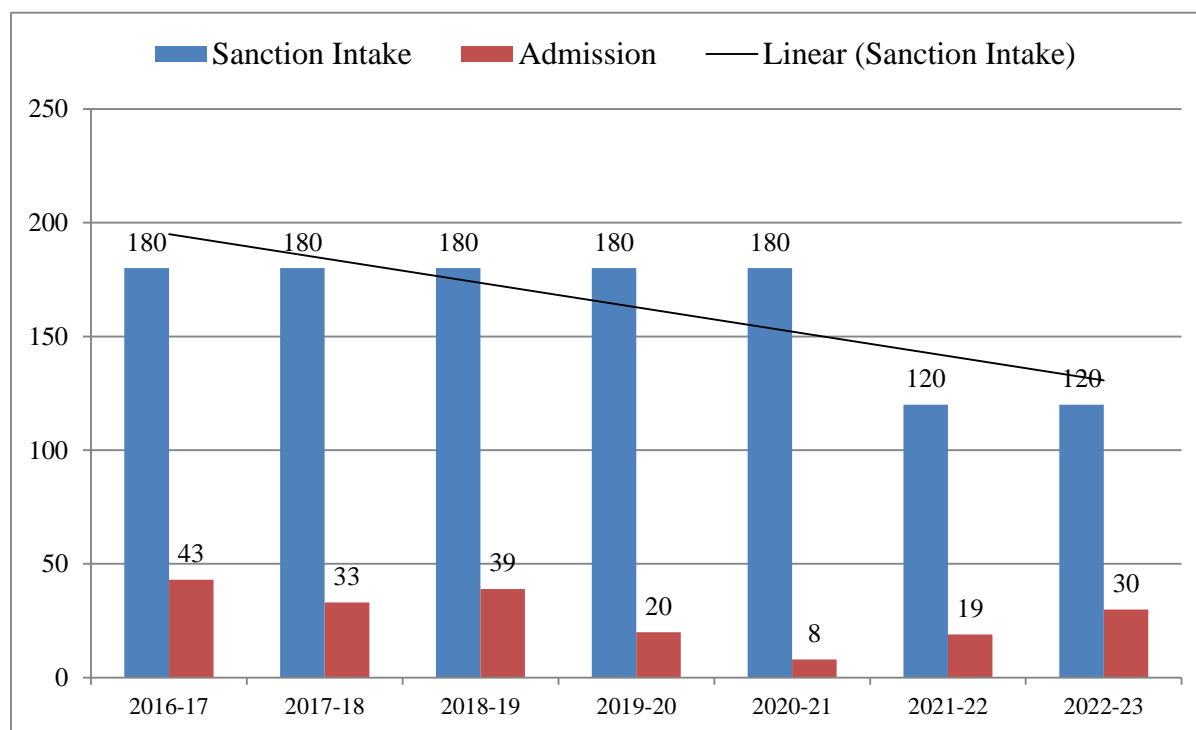
Sr.	Class	Students Enrolled
1	FE Mechanical	30
2	SE Mechanical	63
3	TE Mechanical	149
3	BE Mechanical	120
4	ME – I	03
5	ME - II	02

MESA COMMITTEE Academic Year 2022-2023

Dr.Harjit U. Pawar	HOD
Prof. Tushar V. Gujrathi	MESA Coordinator
Shelke Mangesh D. (BE Mech.)	President
JorwarRushikesh D. (TE Mech.)	Vice President
WaghAkshada M. (TE Mech.)	Secretary
Bhlore Ganesh B. (TE Mech.)	Treasurer
JagtapJayshri B. (BE Mech.)	Ladies Representative
VishwakarmaSundaram B. (BE Mech.)	Cultural Coordinator
Gorde Ganesh S. (BE Mech.)	Sports Coordinator

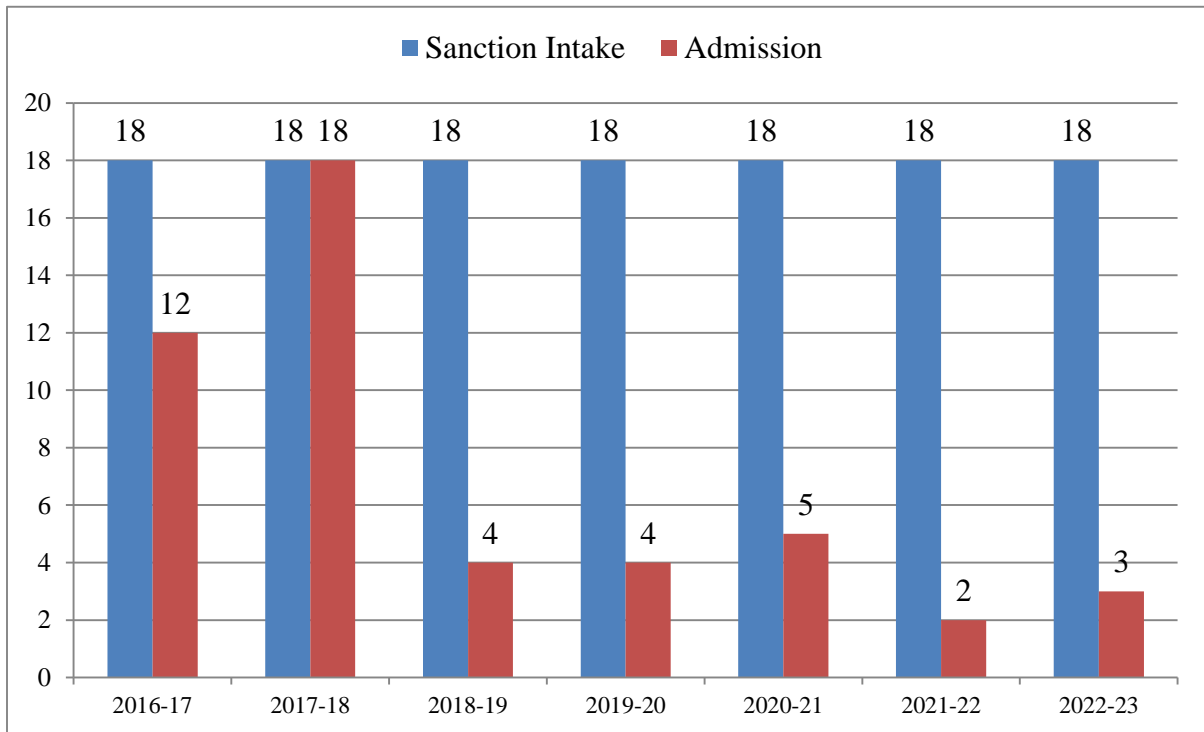
**TOPPER LIST (A.Y.2022-23)**

SE Mechanical			
Rank	Name of Student	SGPA	Class
First	Bhorkade Vaishnavi Pravin	6.7	First Class
TE Mechanical			
Rank	Name of Student	SGPA	Class
First	Pendhari Ganesh Sakharchand	7.45	First Class
Second	Jadhav Roshan Prakash	7.29	First Class
Third	Bhusare Suyash Nitin	7.21	First Class
BE Mechanical			
Rank	Name of Student	SGPA	Class
First	Jorwar Hrushikesh Dileep	8.45	Distinction
Second	Wagh Akshada Madan	8.31	Distinction
Third	Kale Pragati Baban	8.19	Distinction

UG STUDENTS ENROLLMENT STATUS



PG STUDENTS ENROLLMENT STATUS



Instructional Area Details

Sr. No.	Room Type	Area Required (sq. m)	Existing Infrastructure	
			UG	PG
1	Class Room	66	07	02
2	Laboratory	66	12	01
3	Tutorial Room / PG Class Room	33	01	01
4	Seminar Hall	132	01	-



5	Drawing Hall	132	01	-
6	Dept. Library	30*	01	-

Laboratories Details

Sr. No.	Name of Lab	Lab I/C	Area (Sq.m)	Lab Cost (Rs.)
1	SOM	Prof. B. S. Dange	76.98	6,00,122
2	RAC	Prof. S. G. Sawant	72.42	3,23,213
3	DOM	Prof. H. R. Aher	69.69	1,51,014
4	TOM	Prof. V. R. Thakare	76.98	1,96,637
5	ATD/ PPE	Prof. A. R. Nikam/ Prof. S.S. Aher	76.98	9,76,683
6	HT	Prof. G. J. Pathak	104.02	3,59,671
7	FM	Prof. N. G. Chaudhari	76.98	2,02,703
8	ENGG. META	Prof. A. P. Ghodake	72.82	9,78,294
9	IFP	Prof. P. S. Baravkar	84.00	3,11,478
10	Workshop	Prof. V. D. Londhe	962.00	22,79,761



11	CADCAM	Prof. S. S. Aher	72.42	44,47,912
12	MQC/ METX	Prof. T. V. Gujrathi/ Prof. G. J. Pathak	69.69	10,53,071
13	PG Research	Prof. M. S. Deshmukh	76.98	12,62,500
14	BME	Prof. S. A. Dharam	104.02	80,450
	Total Cost	1,32,23,509		

GLIMPSES OF LABORATORIES



Fluid Mechanics LAB



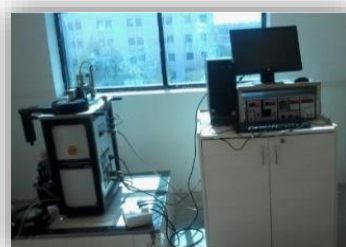
Dynamic of Machinery LAB



Heat Transfer LAB



Industrial Fluid Power LAB



SOM LAB



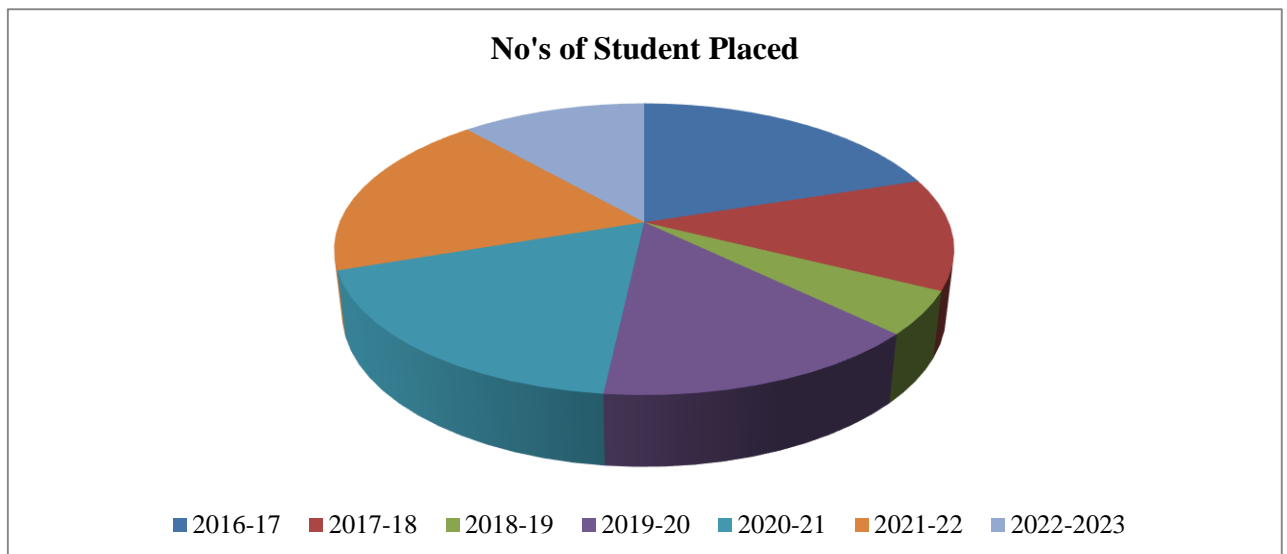
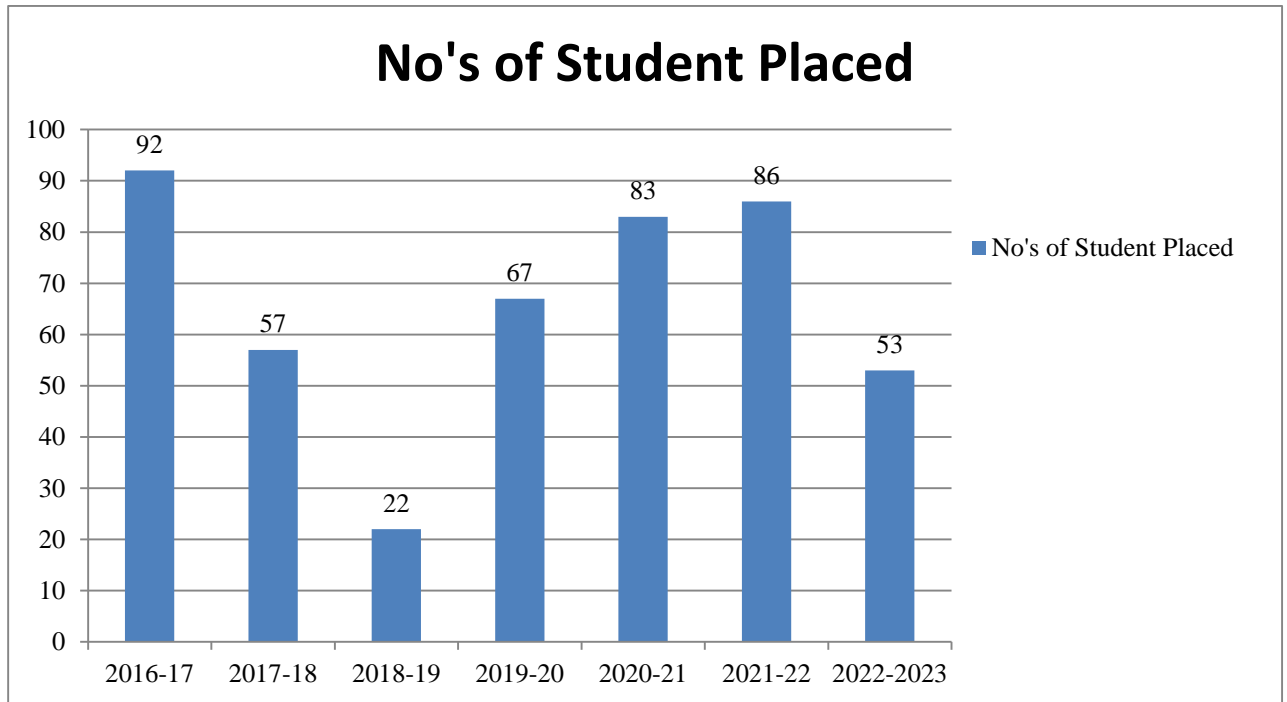
Metallurgy LAB

**IPR DETAILS – (PATENTS& COPYRIGHTS)**

Sr. No.	Name of inventor(s)	Title of Invention	Application ID
1	Dr. H. S. Rane, Dr. H. U. Pawar, Dr. P. N. Patil	Design and Development of Fiber Sandwiched Composite Materials For Improvement of Mechanical Properties	202221057666A
2	Prof. D. P. Kshirsagar	Investigation on effect of bio lubricants based hybrid nano fluids on turning of AISI 1040 Steel using minimum quantity lubrication	202221057187A
3	Dr. H. S. Rane Dr. H. U. Pawar	Design And Development Of Automatic UV Light Disinfection & Sterilization Model For Drinking Water Bottle Applicable To Indian Railways	202321002397



PLACEMENT DETAILS



BEST PRACTICES



Teacher Day Celebration



Placement Drive



Tree Plantation



BE Project 2022-2023



Skill Development Event



Student Participation in Community Engagement through NSS



Industrial Visit at (NIMA) Nashik 2022-2023 Batch



Alumina Felicitation (Jayesh Ahire – worked at Vietnam Toyota Group 2021 Batch)



Alumina Felicitation (Sameer Ansari – Worked at RRB Central Mumbai in Maintenance Department 2015-2016 Batch)



Industrial Visit at Solar Plant (Chh.Sambhaji Nagar.) 2022-2023



Industrial Visit at Thermal Power Plant (Nashik) 2022-2023



Industrial Visit at Marathwada Cold Storage Plant Chh.Sambhaji Nagar.) 2022-2023



BE 2022-2023 Batch Photoshoot

Planning of Next Semester (2023-24)

Following are the objectives planned for 2023-24 SEM – 1

- Seminars
- Industrial Visits
- GATE oriented programs
- Effective Teaching Learning
- Workshops
- NPTL Registrations and Certifications
- Guest Lectures
- MoU's
- Value Added Courses

Foreign Collaboration

OUR SHINING STAR

 <p>Mangesh Shelke Byjus Pvt.Ltd.Pune 9.0 LPA</p>	 <p>Vishal Gaikwad Byjus Pvt.Ltd Pune 8.0 LPA</p>	 <p>Hrushikesh Makhare BOSH Ltd. Nashik 4.50 LPA</p>	 <p>Suraj Rajguru Square Yard Pvt. Ltd. Mumbai 4.50 LPA</p>
 <p>Vaishnav Gunjal Tetrapak India PVT LTD Pune 3.5 LPA</p>	 <p>Tushar Naikwade NRB Bearings Ltd. 2.0 LPA</p>	 <p>Sachin Paithankar NRB Bearings Ltd. 2.0 LPA</p>	 <p>Kamalchandra Ahire NRB Bearings Ltd. 2.0 LPA</p>
 <p>Siddhesh Raut NRB Bearings Ltd. 2.0 LPA</p>	 <p>Sabnis Shubham Endurance Technologies Ltd. 2.0 LPA</p>	 <p>Rushikesh Sadavarte Endurance Technologies Ltd. 2.0 LPA</p>	 <p>Nilesh Shirsath Advik Hi-Tech Pvt. Ltd. 1.80 LPA</p>



Our Recruiters

Cognizant

Infosys

Cognizant

TATA

Mahindra

BYJU'S
The Learning App

BOSCH

ADVIK
Passionately Innovative

ENDURANCE

FOR MORE DETAILS, CONTACT

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