

DEPARTMENT OF MECHANICAL ENGINEERING



**Shri Shamrao Patil (Yadravkar) Educational & Charitable Trust's
Sharad Institute of Technology Polytechnic
Yadrav-Ichalkaranji. (0968/1589)**

NEWS LETTER 2021-22



**DEPARTMENT OF
MECHANICAL ENGINEERING
Program Accredited by NBA, New Delhi**

DEPARTMENT OF MECHANICAL ENGINEERING

Principal's Message:-



I am delighted that the Department of Mechanical Engineering at Sharad Institute of Technology, Polytechnic has published its yearly departmental newsletter. It will undoubtedly aid in the promotion of departmental activities such as technical events, webinars, faculty development programmes, industrial trainings, and so on. It also helps with the development of teamwork, which is critical in today's competitive environment. It serves as a showcase for the faculty's and students' accomplishments in the field of education. I hope this culture of publishing the newsletter will continue forever and become a cited example for all.

I am extremely happy to know that the faculties and students of the Department of Mechanical Engineering at Sharad Institute of Technology are publishing their departmental newsletter 2021-22. This will benefit all the students as they can now aspire to greater heights by knowing the activities and achievements of their department. Both students and faculty showed great enthusiasm and contributed significantly to various technical activities despite the pandemic situation by adopting the online platform. The editorial team has launched something that will continue to help and guide participants and incoming students of the Department. I extend hearty congratulations to the contributors of this newsletter.

DEPARTMENT OF MECHANICAL ENGINEERING

Head of Department 1st Shift



I take this opportunity to welcome you to the department of Mechanical Engineering which is currently one of the largest departments of Sharad Institute of technology polytechnic. I appreciate the efforts put forth by the faculties and students to bring out this newsletter which gives a scenario of all the activities carried out by the department during this academic year 2021-22. Department of Mechanical engineering is working very hard towards the goal of providing innovative and quality education with high standard to achieve academic excellence in field of mechanical engineering. The prime motive of our Department is to provide quality education to our students. The process of learning is extremely important in life. What you learn, how you learn and where you learn play a crucial role in developing ones intellectual capability, besides career. The department has an excellent infrastructure, teaching faculty ensuring quality education. Students are encouraged to complete industrial training to understand professional ethics. Times to time students are guided by faculty through mentoring system to achieve academic and personal excellence.



DEPARTMENT OF MECHANICAL ENGINEERING

Head of Department 2nd Shift



It gives me great pleasure to pass on the message on the occasion of release of Mechanical Department newsletter for academic year 2021-22. With the pandemic situation all over the country, it has brought many challenges to all in each and every sector. Department of mechanical engineering at Sharad Institute of technology Polytechnic has been working very hard in this tough time to help the students for acquiring knowledge and skills in bits and pieces from whatever sources possible and seize an opportunity to use them. We insist our students not to dissipate their energy in the regrets for the past or for the future but to concentrate on the present and try to give out maximum efforts with positive approach towards life to achieve bright career in their future. This newsletter gives a brief overview and simultaneously expresses the efforts taken by the faculties and the students. I wish all the best and assure to bring more such newsletter exploring new ideas and innovations.



DEPARTMENT OF MECHANICAL ENGINEERING

INSTITUTE VISION

To be a center of excellence in technical education by using cutting edge technology that produces competent engineers of today and tomorrow to serve the society.

INSTITUTE MISSION

- To impart quality education by implementing state-of- the-art teaching-learning methods to enrich the academic competency, credibility and integrity of the students.
- To facilitate a conducive ambience and infrastructure to develop professional skills and nurture innovation in students.
- To inculcate sensitivity towards society, respect for environment and promote high standards of ethics.

QUALITY POLICY

We at Sharad Institute of Technology, Polytechnic strive to achieve stakeholder satisfaction by providing quality education and training in science, engineering and technology in a pleasant and disciplined environment through.

- Involvement at all levels.
- Up gradation of facilities and human resources.
- Commitment to continual improvement.

PROGRAMME VISION

Imparting quality education, looking after overall development of students and conducting need based activities for successful career in Mechanical Engineering.

DEPARTMENT OF MECHANICAL ENGINEERING

PROGRAMME MISSION

1. Develop the students for professionalism.
2. Prepare the students to take up career in different fields.
3. Imbibe moral and ethical values in students.

PROGRAMME EDUCATIONAL OBJECTIVES

1. Pursue successful career with strong domain knowledge.
2. Continue professional development through self learning and higher education
3. Seek lifelong learning through moral & ethical values.

**ACADEMIC RESULTS: LIST OF TOPPERS
SY MECHANICAL ENGINEERING**

Sr No.	Name of Student	% Obtained
1	YADAV GOURI DATTATRAY	85.13
2	PATIL KOMAL KIRAN	84.28
3	MANE AASAWARI SUNIL	83.13
4	NILESH KORE	81.5
5	DUDHARKAR TEJAS YASHWANT	73.88
6	PARIT ANIRUDH SACHIN	73.63
7	SINGH SHIVAM SHYAMSAROJ	71.38
8	FANIBAND ARMANALI H	70.5

DEPARTMENT OF MECHANICAL ENGINEERING

9	ZADAGE VAIBHAV RAMESH	69.63
10	SATPUTE OMKAR RAMESH	68.75

TY MECHANICAL ENGINEERING

Sr No.	Name of Student	% Obtained
1	GHOKHALE GAURAV ROBIN	91.18
2	ARAGE KARTIK NANDKUMAR	90.1
3	SINGH AJAY JOGESHWAR	89.64
4	JOSHI ATHARV RAHUL	89.59
5	SATHE ABHIRAV ARUN	88.92
6	SANDESH PRAKASH PATIL	87.03
7	KHALIPHA ANIKAHMAD RASHID	86.21
8	PATIL SHREYASH SURESH	85.9
9	KHOT VAISHNAVI VIKRAMSINH	84.97
10	YERUDKAR ANKITA JOTIBA	83.9

WORKSHOPS CONDUCTED:

Sr.No.	Title	Class	Duration
1.	CREO	TY	28-03-22 to 30-03-22

DEPARTMENT OF MECHANICAL ENGINEERING



GUEST LECTURES CONDUCTED:

Sr. No.	Title	Name of Resource Person	Class	Duration
1.	Soft skills & Interview Techniques	Kajave Harshal	SY	30/11/2021
2.	Refrigeration & Air Conditioned	A.S.Husainy	TY	20/12/2021
3.	Engineering carrier approach	Nikhil N Patil	TY	21/12/2021
4.	ISO 9001(Industrial Engg.&Quality Control)	Mr Ajay Akale	TY	10/03/2022
5.	Personality Development through Value & Environment education	Mr.S.M.Nerli	SY	14/03/2022

FEW GLIMPSES OF GUEST LECTURES:

Topic: “Soft skills & Interview Techniques” conducted on 30/11/2021

DEPARTMENT OF MECHANICAL ENGINEERING



Topic: “Refrigeration & Air Conditioning” conducted on 20/12/2021

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Topic: “Personality Development through Value & Environment education” conducted on 14/03/2022”

DEPARTMENT OF MECHANICAL ENGINEERING

FACULTY DEVELOPMENT PROGRAM

Sr. No.	Faculty Name	Date		Organization	Topic
		From	To		
1	N.S.PATIL.	10-Nov	12-Nov	Yashwantrao Chavan Polytechnic, Ichalkarnji	Casting Design & Simulation
2	N.S.PATIL.	July	Sept	Indian Institute of Technology Roorkee	Introduction to Mechanical Vibration
3	N.S.PATIL.	24-Dec	28-Dec	ATAL	Wearable Robotics: Design, Sensing and Support
4	S.S.MALI.	26-July	15-Oct	Indian Institute of Technology, Kharagpur	Energy Conservation & Waste Heat Recovery
5	A.B.PATIL.	Feb	Apr	Indian Institute of Technology, Madras	Introduction to Research
6	S.N. BODAKE.	Feb	March	Indian Institute of Technology Roorkee	Inspection & Quality Control in Manufacturing
8	P J PATIL	11-Feb	16-Feb	Sharad Institute of Technology Polytechnic	Research Methodology, Research Publication & Patent Filing
9	P J PATIL	07-Feb	12-Feb	Ashokrao Mane Polytechnic	Electric Vehicles – The Future Technology
10	B. B. PATIL	08-Feb	14-Feb	Sharad Institute of Technology, College of Engineering, Yadrav, Ichalkaranji	Simulation Tools for Research
11	R. R. KAPSE	01-Feb	05-Feb	Ashokrao Mane Polytechnic	Emerging Trends in Polytechnic Education
12	R. R. KAPSE	08-Feb	14-Feb	Sharad Institute of Technology, College of Engineering, Yadrav, Ichalkaranji	Simulation Tools for Research
13	R. R. KAPSE	11-Feb	16-Feb	Sharad Institute of Technology Polytechnic	Research Methodology, Research Publication & Patent Filing
14	A. B. KHOT	11-Feb	16-Feb	Sharad Institute of Technology Polytechnic	Research Methodology, Research Publication & Patent Filing
15	A. B. KHOT	08-Jan	14-Jan	Sharad Institute of Technology Polytechnic	Advances in Industry Electrical System

DEPARTMENT OF MECHANICAL ENGINEERING

16	A. B. KHOT	07-Mar	03-Mar	SRM TRP Engineering College, Tiruchirapalli	Recent Advances & Applications in Mechanical Engineering
17	A. K. MAGDUM	24-Jan	29-Jan	Dr. J. J. Magdum college of Engineering, Jaysingpur	Machine learning
18	B. J. JUGALE	02-Feb-22	07-Feb-22	Satbara Agro Services Pvt.Ltd	Industrial Training
19	R. R. KAPSE	20-Jan	22-Jan	Omkar Engg. Works, Karad	Industrial Training
20	A. D. PATIL	02-Feb-22	07-Feb-22	Satbara Agro Services Pvt.Ltd	Industrial Training
21	P. P. MANGAVE	19-Jan	21-Jan	Sharad Sahakari Sakhar Karkhana Ltd.	Industrial Training
22	K. J. AWATI	07-Feb	09-Feb	Shubham Engineering Works	Industrial Training
23	A. M. PANDHARE	07-Feb	09-Feb	Shubham Engineering Works	Industrial Training
24	A. K. BURSE	01-Feb	03-Feb	Navanath industries, Kupwad	Industrial Training
25	K. S. LATTHE	28-Jan	30-Jan	Yadav Fab Equipments and machinery	Industrial Training
26	S. S. KOTHALE	02-Feb	04-Feb	Saroj Engineering Udyog, Pvt. Ltd.	Industrial Training
27	B. B. PATIL	29-Jan	31-Jan	Institute for design of electrical measuring instruments	Electric Vehicles Charging Station and Retro Fitting Business
28	A. B. KHOT	29-Jan	31-Jan	Institute for design of electrical measuring instruments	Electric Vehicles Charging Station and Retro Fitting Business

FACULTY PAPER PUBLICATIONS

SR. NO.	NAME OF AUTHOR	TITLE/TOPIC	NAME OF THE JOURNAL
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DEPARTMENT OF MECHANICAL ENGINEERING

1	Mr.B.A.MAGDUM.	INVESTIGATION OF MECHANICAL PROPERTIES OF ALUMINIUM BASED METAL MATRIX COMPOSITES BY USING STIR CASTING	IJSART JOURNAL
2	Mr.S.N.BODAKE.	SAFETY MECHANISM FOR PUNCHING MACHINE	MAT JOURNAL - JOURNAL OF ADVANCEMENT
3	MS. R. R. KADAM	MODIFICATION IN FABRIC AND INSPECTION ROLLING MACHINE WITH AUTOMATIC ADJUSTMENT	IJSART JOURNAL
4	MR. A. B. KHOT	ARDUINO BASED ROBOTIC ARM FOR AUTOMATION	IJSART JOURNAL
5	Ms.A.K.BURSE.	AAC BLOCK PULLING MACHINE	IJSART JOURNAL
6	MS. R. R. KADAM	ENHANCEMENT OF AUTOMIZATION IN SPRAY BY USING TWO SPEEDD GEARBOX FOR AGRICULTURE	IJSART JOURNAL
7	Mr.N.S.PATIL.	DESIGN & DEVELOPMENT OF VMC HYDRAULIC FIXTURE FOR CASING COVER OF PUMP HOUSING	MAT JOURNAL- JOURNAL OF RECENT ACTIVITIES IN PRODUCTION
8	Mr.P.P.MANGAVE.	ANALYSIS OF MECHANICAL PROPERTIES OF BIO- PETG MTERIAL BY USING RAPID PROTOTYPING FUSED DEPOSITION MODELLING TECHNIQUE	MAT JOURNAL - JOURNAL OF MECHANICAL AND MECHANICS ENGINEERING
9	Mr.A.M.PANDHARE.	SCREW JACK SUPPORT MECHANISM	IJSART JOURNAL
10	Mr.A.M.PANDHARE.	DESIGN AND MANUFACTURING OF VMC FIXTURE OF TOOL	IJSART JOURNAL
11	Mr.A.D.PATIL.	KHARI SHEATER MACHINE	IJSART JOURNAL
12	Ms.K.S.LATTHE	DESIGN AND DEVELOPMENT OF SNIP TOOL	IJSART JOURNAL
13	Mr. M. A. PATIL	DESIGN AND MANUFACTURING OF ROTARY DUST COLLECTOR IN TEXTILE INDUSTRY	INTERNATIONAL INVENTIVE MULTIDISCIPLINAARY JOURNAL
14	MR. P. J. PATIL	CONTROLLER(IOT) BASED AUTOMATIC SORTING SYSTEM	IJSART JOURNAL

DEPARTMENT OF MECHANICAL ENGINEERING

15	MR. P. J. PATIL	REDUCE THE REJECTION OF THE ROCKER LEVER ARM	IJSART JOURNAL
16	MR. S. S. SAJANE	OIL SKIMMER	IJSART JOURNAL
17	MR. K.J. AWATI	DESIGN AND MANUFACTURING OF HYDRAULIC FIXTURE FOR MOUNTING BRACKET	IJSART JOURNAL
18	MR. B. J. JUGALE	DESIGN AND DEVELOPMENT OF MANUFACTURING OF BAMBOO CUTTING AND SLICING MACHINE	IJSART JOURNAL
19	MS. R.R KAPSE	DESIGN AND FABRICATION OF STAIR CLIMBING TROLLEY	IJSART JOURNAL
20	MS. R. R. KAPSE	DESIGN AND DEVELOPMENT OF BREAD SLICER MACHINE	MANTECH PUBLICATION
21	MS. K.S. LATTHE	MULTI SPINDLE DRILLING MACHINE	IJSART JOURNAL
22	MR. A. D. PATIL	ROBOT TRAINER KIT WITH STANDALONE SERVO CONTROLLER	MANTECH PUBLICATION

LABORATORIES



Mechanical Engineering Measurement LAB



Metrology and Quality Control LAB

DEPARTMENT OF MECHANICAL ENGINEERING



Power Engineering & Refrigeration LAB



Mechanical Engineering Material LAB



Automobile Engineering LAB



Computer Aided Drafting LAB



DEPARTMENT OF MECHANICAL ENGINEERING

CNC LAB

A well equipped CNC Lab with production center has been established in order to bridge the gap between academics and industry. With actual Jobs from local industries students are imbued with the knowledge about production of machine parts in industry.

MESA ACTIVITIES

“QUIZ COMPETITION”

DEPARTMENT OF MECHANICAL ENGINEERING



DEPARTMENT OF MECHANICAL ENGINEERING

“DEBATE COMPETITION”



DEPARTMENT OF MECHANICAL ENGINEERING

PAPER PRESENTATION COMPETITION 2021-22

“ORNATE 2K22”

Shri Shamrao Patil (Yadavkar) Educational & Charitable Trust's
**SHARAD INSTITUTE OF TECHNOLOGY,
 POLYTECHNIC, YADRAV**
 First Polytechnic in Maharashtra to get All Six Programmes Accredited by NBA at a time

INSTITUTE CODE : 0968/1589
 DTE CODE : 6436

Science & Humanities
PAPER PRESENTATION

- Global Warming
- Post Covid Society / Covid Hero's
- Advantages & Disadvantages of Technology
- 5G Technology
- Online Education Pro's & Con's

Ms. Dhanashri T. Jadhav
 Mob. 7775788967

**ORNATE
 2K22**
 A NATIONAL LEVEL EVENT
 5th March 2022

Electrical Engineering
PAPER PRESENTATION

- Future of E-Vehicles
- Industry Automation
- Hi Efficiency Photovoltaic Cell
- Role of Data Science in Electrical Engineering
- Energy Efficient Machines

Mr. Rahul R. Chougule
 Mob. 7262862485

**Prizes worth Rs.
 50,000/-**

Mechanical Engineering
PAPER PRESENTATION

- Artificially Engineered Material Composites
- Artificial Intelligence in Mechanical Engineering
- Beyond Conventional Mechanical Engineering
- Automation & Robotics
- Future Vehicles

Ms. Kapila S. Latthe
 Mob. 8310245700

IMPORTANT DATE & RULES

IMPORTANT DATES
 Date of Presentation 5th March 2022
 Last Date of Registration : 3rd March 2022

RULES
 Maximum 2 Participants in a Group
 Time Duration 5 min,
 Entry Fees Rs. 50/- (per participant)

Information Technology
PAPER PRESENTATION

- 5G Wireless Network
- Web Mining
- Artificial Neural Network
- IT Governance
- Aircraft GPS Tracking

Ms. Sharmila S. Bahirgunde
 Mob. 9623596061

Computer Engineering
PAPER PRESENTATION

- Cloud Computing
- 5G Technology
- Cyber Security
- Block Chaining
- Artificial Intelligence

Ms. Aarti D. Koule
 Mob. 7058524325

E & TC Engineering
PAPER PRESENTATION

- Robotics Process Automation
- Embedded System in Automobiles
- A.I. for Speech Recognition
- Spintronics
- Eye Gaze Communication System

Mr. Pratik Y. Karandikar
 Mob. 7058078735

Civil Engineering
PAPER PRESENTATION

- Green Technology in Construction
- Emerging Trends / Advancement in Concrete Technology
- Intelligent Transportation System
- Automation : Pro's & Con's
- Impact of Covid-19 on Construction Industry

Ms. Prital S. Chougule
 Mob. 9156407229

Programme Co-ordinator : Ms. Aboli Y. Kerle Mob. 9970865544 | Mr. Aniket D. Patil Mob. 9272153910

Address for Correspondence:
Sharad Institute of Technology, Polytechnic
 Yadrav [Chalkaranji] Tal. Shirol, Dist. Kolhapur, 416 121 Maharashtra (INDIA)

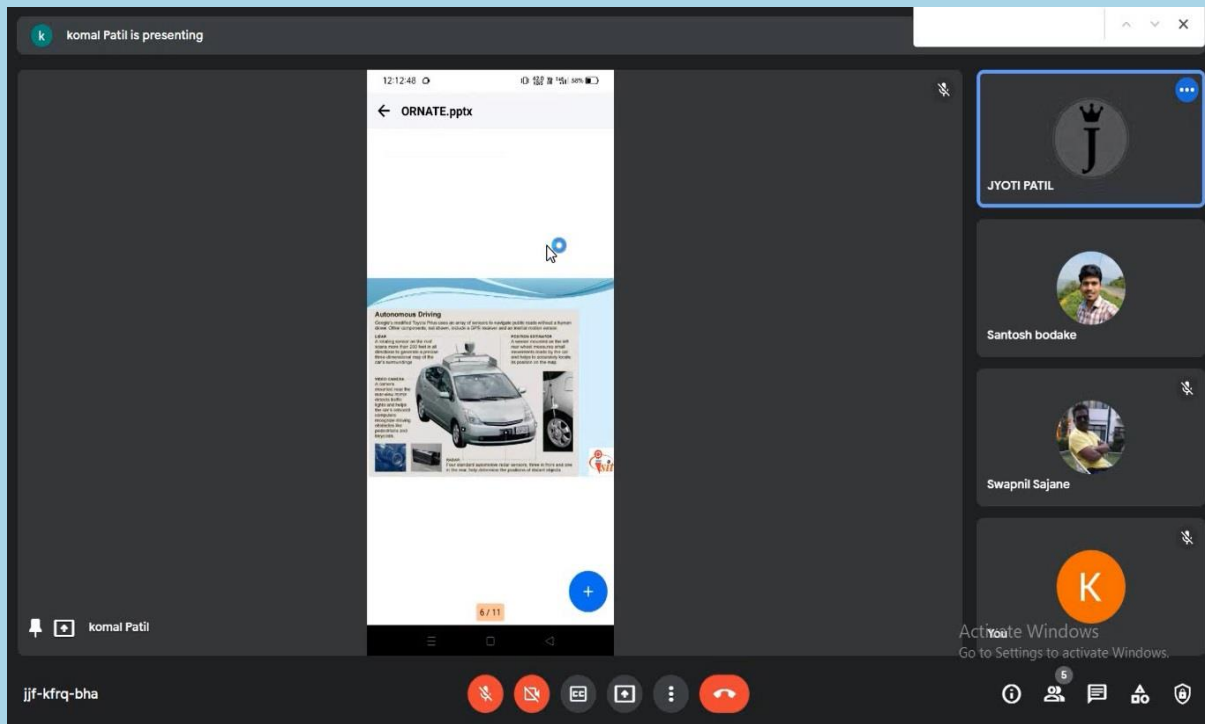
Hon. Dr. Rajendra S. Patil (Yadavkar)
Chairman

Hon. Shri Anil A. Bagane
Executive Director

Prof. B. S. Tashildar
Principal

Send your Soft Copies to
 sitornate2k22@gmail.com

Few Glimpses from the EVENT ORNATE 2K22



DEPARTMENT OF MECHANICAL ENGINEERING



PROJECT COMPETITION 2021-22

“TECHNOCrat 2K22”

DEPARTMENT OF MECHANICAL ENGINEERING



Shri Shamrao Patil (Yadavkar) Educational & Charitable Trust's

SHARAD INSTITUTE OF TECHNOLOGY, POLYTECHNIC, YADRAV

First Polytechnic in Maharashtra to get All Six Programmes Accredited by NBA at a time

An ISO 9001 : 2015 Certified Institute



DTE CODE
6436

Inauguration on

10 May 2022 | 10.30am

1st Prize
₹5000/-

2nd Prize
₹3000/-

3rd Prize
₹2000/-

PRIZES FOR EACH BRANCH

Prize Distribution :
3:30pm.

National Level Project Competition

TECHNOCrat 2K22

Mechanical
Civil
Electrical
Electronics & Tele. Comm.
Computer Engg.
Information Technology
Mechatronics Engg.

Important Dates

Event Date : 10 May 2022

Last Date of Registration : 2 May 2022

Confirmation Email for Selected Participants :
07 May 2022

Mode of Competition : Offline

Maximum 5 Students/Projects
Each Participant will get Certificate

Prof. B. S. Tashildar | Hon. Shri Anil A. Bagane | Hon. Dr. Rajendra S. Patil (Yadavkar)

Principal | Executive Director | Hon. Minister of State Government of Maharashtra

Address for Correspondence:

SHARAD INSTITUTE OF TECHNOLOGY, POLYTECHNIC

Yadav (Chalkaranji), Tal.: Shirol, Dist.: Kolhapur - 416121 Maharashtra (India)
Ph.: 02322-253050, 253071 For more detail visit : www.sitpolytechnic.ac.in

Send your soft copies to: sit.technocrat2k22@gmail.com

with subject as "Group Name, College Name, Department, Project Topic"

Few Glimpses from the EVENT TECHNOCrat 2K22

DEPARTMENT OF MECHANICAL ENGINEERING



DEPARTMENT OF MECHANICAL ENGINEERING**FACULTY LIST :**

Sr. No.	Name of Faculty	Designation	Qualification
1	S.S.MALI.	HOD	MTech
2	N.S.PATIL	HOD 2 nd Shift	ME
3	M. A. PATIL.	Dean Administrative	BE
4	A.K.MAGDUM.	Dean Finance	PhD Pursuing
5	A.B.PATIL	Workshop Superintendent	PhD Pursuing
6	A.S.KEKARE	TPO	BE
7	B.J. JUGALE	Lecturer	BE
8	S.S. KOTHALE.	Lecturer	ME
9	B.A.MADGUM	Lecturer	BE
10	S.N. BODAKE.	Lecturer	ME
11	W. I. SHAIKH.	Lecturer	ME
12	P.J.PATIL.	Lecturer	ME
13	MS.K.S.LATTHE	Lecturer	BE
14	A.M.PANDHARE	Lecturer	ME
15	K.J.AWATI	Lecturer	ME
16	A.K.BURSE.	Lecturer	ME
17	A.B.KHOT	Lecturer	BE
18	P.P.MANGAVE	Lecturer	PhD Pursuing
19	R.R.KAPSE	Lecturer	BE
20	B.B.PATIL	Lecturer	BE
21	A.D.PATIL	Lecturer	ME

DEPARTMENT OF MECHANICAL ENGINEERING

EDITOR'S DESK

It gives me immense pleasure in presenting the issue of Mechanical Engineering departmental newsletter 2021-22. I consider myself very fortunate that I got opportunity to lead a very effective and co-operative MESA team. I feel to mention here that all students of our department worked very hard throughout the year for successful arrangement of various online events during this pandemic situation. I take this opportunity to express my deep gratitude towards respected Exe. Director Hon. Shri Anil Bagane sir, Principal Mr.B.S.Tashildar sir, Head of Department Mr.S.S.Mali sir, Shift Program Head of Mechanical Department Mr.N.S.Patil sir, my colleagues, non teaching staff and all students for their valuable help throughout the year.

NEWSLETTER EDITORIAL BOARD

Sr. No.	Name of the student	Division	Designation
1	Atharv Rahul Joshi	TY-B	President
2	Harshvardhan A. Jadhav	TY-C	Vice-president
3	Gouri D. Yadav	SY-A	Secretary
4	Prathmesh S. Karnawat	TY-A	Treasurer
5	Komal K. Patil	SY-A	Co-Ordinator
6	AtharvSambhushete	SY-A	Co-Ordinator
7	Nishant S. Koravi	SY-A	Co-Ordinator
8	BhushanYadrave	TY-B	Co-Ordinator
9	Sahil J. Khan	TY-C	Co-Ordinator
10	Asawari Mane	SY-A	Co-Ordinator
11	Shreyash S. Dangare	TY-C	Co-Ordinator
12	Sammed Gat	TY-A	Co-Ordinator
13	RohanDhanavade	TY-C	Co-Ordinator

Faculty Co-ordinator**MESA Faculty Advisor: Ms.A.K.Burse****Students Co-ordinator****MESA President : Atharv Joshi**

DEPARTMENT OF MECHANICAL ENGINEERING

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