

2019-20

Mechzine 2K19

NEWSLETTER

Volume 3

Department of Mechanical Engineering



S.V.S.M.D's

**Kai. Kalayanrao (Balasaheb) Ingale
Polytechnic, Akkalkot**



Mechanical Engineering Department

Welcome



It gives me great pleasure to give my best wishes to Newsletter of department for the academic year 2019-20. The students and faculties of department are always proactive in taking initiatives in technical, cultural and social events, industrial visits and expert lectures etc. I hope this newsletter will serve the purpose of reflecting all activities of department and it will inspire others to do their best.

I wish good luck to the entire team and look forward for your kind patronage to newsletter.

Mr. M. B. Mane
Head of Department

Vision

To nourish the rural youth by technical education favorable to mechanical industries and social excellence

Mission

1. To create awareness of technical education & minimizing the gap between industry and rural youth by industrial visits & internship programs
2. To make the students ready with technology in Mechanical Engineering through workshops
3. To enable the students to overcome the challenges in higher studies & industrial profession by Seminars

Program Educational Objectives (PEOs)

1. To make them eligible for higher education and endless learning
2. To develop employability in technical field.
3. To develop socially responsible professionals.

Program Outcomes (POs)

1. **Basic and discipline specific knowledge:** Apply the knowledge of basic mathematics, science and engineering fundamental and engineering specialization to solve the engineering problems.
2. **Problem analysis:** Identify and analyze well-defined engineering problems using codified standard methods.
3. **Design / Development of Solution:** Design solutions for well-defined technical problems and assist with the design of system components or process to meet specified needs.
4. **Design / Development of Solution:** Design solutions for well-defined technical problems and assist with the design of system components or process to meet specified needs.
5. **Engineering Practices for Society, Sustainability and Environment:** Apply appropriate technology in context of society, sustainability, environment and ethical practices.
6. **Project Management:** Use engineering management principals individually, as a team member or a leader to manage projects and effectively communicate about well-defined engineering activities.
7. **Life-long learning:** Ability to analyse individual needs and engage in updating in context of technological changes.

Expert Talks

We invited various experts to enhance student's technical knowledge as well as overall personality

1. **“Automation and Robotics”** by **Mr. V.R. Vhathakar**, Solapur for second year and third year students.
2. **“Career after Diploma”** by **Mr. S.N. Solapure**, Trainee engineer, John Deere Pune for third year students.
3. **“Emerging Trends in e-automotive”** by **Mr. Vinayak Bannur Design Engineer Global Engg Solution** for third year students.
4. **“Carrier in Merchant Navy”** by, **Prof. M. C. Shaikh** Solapur for third year students.
5. **“Evolution of e-vehicles”** by **Miss. Shivani Gamma R&D Engineer V2 Mototech India Ltd.** Pune for third year students.
6. **“Interview Techniques and Industrial culture”** by **Mr. A.V. Chipade** Solapur for third year students.
7. **“Role of Mechanical Engineer in Software industry”** by **Mr. S.G. Jeur Tata Consultancy Services Pune** for third year students.



Experts interacting with students

Industrial Visits

We visited various industries to enhance student's technical knowledge as well as overall personality

1. Dodda Beta Tea Factory Ooty.
2. Mathoshri Laxmi Sugars Co. Ltd. Ruddewadi
3. Rudrali Hi Tools Pvt. Ltd, E-94 M.I.D.C Akkalkot Road, Solapur.
4. Leena Industry, Solapur
5. Pise Industry, Hotagi road Solapur.
6. Vijay Engineering, Akkalkot Road MIDC, Solapur.
7. Renuka Engineering Works Solapur.



Dodda Beta Tea Factory Ooty

Faculty Achievements:



Mr. M. B. Mane Head of Department of Mechanical Engineering is awarded by “**Award of Excellence**” from Bank of India for continuing excellence in teaching.

Workshops/Trainings attended

1. Mr. Bhawthankar A.A. attended five days industrial training program sponsored by MSBTE conducted at M/s TATA MOTORS PUNE.
2. Mr. Mane M.B. attended five days training program on “**NBA Norms & Preparation for Accreditation**” 'sponsored by MSBTE conducted at A.G.PATIL POLYTECHNIC INSTITUTE, SOLAPUR.
3. Mr. Masuti S.B. attended five days industrial training program on “**Advance Metrology**” sponsored by MSBTE conducted .at M/s MEASUREWEL TECHNO VISION PVT.LTD. MIDC WALUJ, AURANGABAD
4. Mr. Phopale Y.A. attended five days industrial training program on “**Advance Metrology**” sponsored by MSBTE conducted at M/s MEASUREWEL TECHNO VISION PVT.LTD. MIDC WALUJ, AURANGABAD.





5. Mr. Paramashetti S.C. attended three days industrial training program on “**Dynamometer**” sponsored by MSBTE conducted at M/s SAJ TEST PLANT PVT.LTD. PUNE.
6. Mr. Paramashetti S.C. attended three days industrial training program on “**Introduction to Thermal Power Plant**” sponsored by MSBTE conducted at RELIANCE INFRA. LTD. 2×250 MW DTPS, DAHANU
7. Mr. Masuti S.B. attended five days industrial training program on “**Introduction to Thermal Power Plant**” sponsored by MSBTE conducted at RELIANCE INFRA. LTD. 2×250 MW DTPS, DAHANU.
8. Mr. Phopale Y.A. attended five days industrial training program on “**Introduction to Thermal Power Plant**” sponsored by MSBTE conducted at RELIANCE INFRA. LTD. 2×250 MW DTPS, DAHANU
9. Mr. Phopale Y.A. attended Three days industrial training program on “**Best practices in Industries**” sponsored by MSBTE conducted at M/s KEC International Training centre, Nagpur
10. Mr. Masuti S.B. attended Three days industrial training program on “**Industrial Fluid Power**” sponsored by MSBTE conducted at M/s Festo India Pvt. Ltd.
11. Mr. Bhawthankar A.A. attended Three days industrial training program on “**Best practices in Industries**” sponsored by MSBTE conducted at M/s KEC International Training centre, Nagpur



Training at Reliance DTPS Dahanu






Academic Performance:





Summer 2019

COURSE	NAME OF STUDENT	Photo	PERCENTAGE	RANK
ME2I	NADAF SAMEER JAVID		85.20%	1 st
	LONAR LAXMI SIDDHARAM		82.53%	2 nd
	SHIVAMURTI YUVARAJ RAJASHEKHAR		81.47%	3 rd
ME4I	BEDGE ROHINI SUDARSHAN		85.00%	1 st

	KHILARI SACHIN RUDRAPPA		81.13%	2nd
	SUTAR PRASAD MALLINATH		80.88%	3rd
ME6G	CHAVAN NIKHIL ANIL		87.13%	1st
	CHALGERI GANGADHAR SIDDHANNA		85.38%	2nd
	VHATAGE PRAVIN SIDDHARAM		84.00%	3rd

Winter 2019

COURSE	NAME OF STUDENT	Photo	PERCENTAGE	RANK
ME11	UDAGI AKASH PANDIT		76.71	1 st
	BAGUL PRANAV SANJAY		75.43	2 nd
	KALASE AKSHAY MAHESH		75.00	3 rd
ME31	NADAF SAMEER JAVID		75.00	1 st
	LONAR LAXMI SIDDHARAM		71.58	2 nd

	SHIVAMURTI YUVARAJ RAJASHEKHAR		71.26	3rd
ME5I	BEDGE ROHINI SUDARSHAN		88.38	1st
	SUTAR PRASAD MALLINATH		85.33	2nd
	KHILARI SACHIN RUDRAPPA		83.05	3rd

Placements: Our students are selected by following industries.

Sr. No	Name of Students Selected	Name of Industry Approached for Campus Interview
1	GAWALI KRISHNA ASHOK	Harman Pvt. Ltd .chakan
2	MORE SACHIN SUNIL	Premier Pune
3	LODDE SHEKHAR BASAVARAJ	Mahindra Pune
4	BHOLE AKSHAY RAMLING	John Deere India Pvt. Ltd.
5	NADAF SAMIR RAMAJAN	John Deere India Pvt. Ltd.
6	CHALGERI GANGADHAR SIDDHANNA	John Deere India Pvt. Ltd.
7	PAWAR BALBHIM DHANSINGH	DANA INDIA LTD, Hinjawadi
8	CHAVAN NIKHIL ANIL	Sigma Electrical Chakan
9	JAMADAR BASAVARAJ SHIVANNA	Keihin FIE Pvt. Ltd.
10	SHINDE PRASAD BABURAO	Sigma Electrical Chakan
11	SOLAPURE SANTOSH NEELKANTH	John Deere India Pvt. Ltd.
12	VHATAGE PRAVIN SIDDHARAM	DANA INDIA LTD, Hinjawadi
13	FULARI SHIVARAJ SHARNAPPA	BAJAJ AUTO Pune
14	CHITALI SHIVARAJKUMAR SHIVANAND	DANA INDIA LTD. Hinjawadi
15	WAGHMARE RATIKANT JIVANAPPA	Keihin FIE Pvt. Ltd.
16	KAPASE SANDIP SHIVASHARAN	DANA INDIA LTD, Hinjawadi
17	PATIL SURESH SANJAY	DANA INDIA LTD, Hinjawadi
18	KOTANUR AKASH SHRIKANT	SENSERA Engg. Ltd, Chakan
19	KUMBHAR VIRESH BHIMASHANKAR	Piaggio Vehicles Pvt. Ltd. Baramati

Extra co-curricular activities

We are celebrated various festivals and days under the Mechanical Engineering Student Association (MESA)



10th Foundation Day



Apron Day



Welcome Function



Co-curricular activities

We are Conducted various technical events under the Mechanical Engineering Student Association (MESA)



Brain Spark

A technical quiz competition is conducted for students to improve technical knowledge.

Dated:-15-09-2019



Poster Presentation

A Poster Presentation competition is conducted for students to improve presentation skill and communication skill. Dated:-15-09-2019

Student's Projects

Bore well Lifting Machine

ABSTRACT

Bore well submersible pump “motor lifting machine is mainly developed to lift the submersible pump and motor from the bore well. This machine is improved from of old chain block mechanism which is mainly used to reduced human effort, time and cost as compare to this machine. Speed of motor is converted into torque so we can lift high weight by using minimum horse power motor and saves electricity. Height required for actual machine is 78cm. it is sufficient for removing 200 ft continuous pipe (HDPE) from bore well. Due to low weight and easy to assemble and disassemble it can be easily transport from one side to another. This machine requires low space for mounting. We use to motor to lift the continuous pipe from bore well instead of chain block; it can save remarkable time as well as human effort by changing the power of motor we can change the weight lifting capacity of bore well motor lifting machine. From the tests, it is observed that developed bore well submersible pump motor lifting machine very useful for society. It is easy to operate; time and cost saving as comparing to existing chain block machine. In the ancient days these process carry out with the help of chain pulley mechanism. This method is traditional method and very time consuming. The main purpose behind this project is to lift the pump and motor in less time and human efforts with very simple and convenient mechanism. The bore well pipe lifter and transportation machine gives more than 3m /min transfer rate which makes the mounting and dismounting of the submersible pump in bore wells very fast and very easy.

Implemented By

Mr. Sutar P. M.

Mr. Desai M. V.

Mr. Desai S. R.

Mr. Nimbargi R. N.

Mr. Borute G. S.

Mr. Pujari S. S.

Under the Guidance of

Mr. S. C. Paramshetti.

Lecturer in Mech. Engg. Dept.



S.V.S.M.D's



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Akkalkot**

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Recognized by: Government of Maharashtra
Approved by: Directorate of Technical Education (DTE), Mumbai
**Affiliated to: Maharashtra State Board of Technical Education (MSBTE),
Mumbai**

COURSES OFFERED IN DIPLOMA ENGINEERING

Discipline	Intake Capacity	Duration of Course
Mechanical Engineering	60	3 Years
Electronics and Telecom. Engineering	30	3 Years
Civil Engineering	60	3 Years
Computer Engineering	30	3 Years
Total Intake	180	