## **NEWS LETTER - 2019-2020**

















Mr. Vijaykumar Chavan HOD,ME

It gives me an immense pride and pleasure to lead the Mechanical Engineering Department which provides an ideal blend of youthful enthusiasm and core professional experience for the budding mechanical engineering aspirants. Mechanical Engineering is the front-runner because of its recognition and adoption by all industries and academia, thereby gaining self-confidence of our students to compete successfully with all competitive disciplines.

The Mechanical Engineering department at SKSVMACET is well equipped with latest state of the advanced laboratories. All the laboratories are upgraded time to time as per the need of the curriculum and for practical exposure. Experienced and dedicated technical staff who takes special interest on training the students is our strength. Some of the main labs are Engineering Workshop, Machine Tools, Fluid mechanics, Hydraulics and Hydraulic machinery, Strength of Materials and Thermal Engineering etc.

Mechanical Engineering enjoy a high demand service status in modern manufacturing and industrial processes. The infrastructure and lab facilities are upgraded periodically to provide indepth training and creative environment for the students. The department library, seminar hall, digital class rooms, effective mentoring, encouragement to take part in curricular and cocurricular activities provides great opportunities to the students in the field of Mechanical Engineering. The department has adopted latest teaching learning processes like E–learning, power point presentations, overhead projectors, seminars, industrial visits and Workshops etc. to meet the requirements of accreditation. The department conducts various programs under the student's association 'TORQUE' such as Workshops, Technical Training, Project-expo, Guest Lectures and Seminar by the experts from Industry and Academic background for constant knowledge up-gradation of staff and students. We continue to play a leading role in our discipline which leads us towards to create an innovative and effective professional graduate community to take care of the societal needs. I congratulate **Mr. Mahindra K. Hullur** for the effort put in by collecting the necessary data for the newsletter.

I extend my warm wishes to all budding Mechanical Engineers.

Mr. Vijaykumar Chavan Assistant Professor and HOD

#### **Department Coordinator Note:**



I am filled with immense gratitude for having been given this opportunity. We are extremely happy in releasing the odd semester (August 2019 and January 2020) newsletter. This Newsletter highlights the activities organized & conducted by Mechanical Engineering department. In this edition, I have tried to capture last six months' activities of the department. I heartily congratulate the staff and students for their active participation in various events like workshops, seminars, technical talks etc.

Mr. Mahindra K. Hullur

Assistant Professor, Dept of Mech.

#### Vision of the Program

Impart quality technical education for accomplishing academic excellence with relevant training to prepare professionals with proficiency, ethics and research culture to cater industrial and societal needs in mechanical engineering.

#### **Mission of the Program**

M1-To provide relevant and appropriate learning ambience to accomplish technological and social needs.

M2 -To inculcate interdisciplinary and innovative activities for better career of students.

M3-Instill theoretical, practical, design and development skills essential for lifelong learning process with team spirit.

M4-Develop expertise, attitude and core competence of stakeholders by providing them a platform to showcase their diverse aptitude.

#### **Programme Specific Outcomes (PSOs)**

PSO1-Apply basic and advanced mechanical engineering concepts for designing and manufacturing of various components.

PSO2-Exhibit technical proficiency in determining the sustainability standards and in analyzing the performance of different energy conversion systems.

#### **Programme Education Objectives (PEOs)**

PEO1-Provide quality undergraduate education for students entering the mechanical engineering profession or seeking career in related fields.

PEO2-Graduates exhibits skill to apply knowledge of Mechanical engineering with multidisciplinary approach to resolve real life problems.

PEO3 Graduates demonstrate lifelong learning and ethical practices in fulfilling technological, societal and environmental requirements.

- PE04 Graduates develop problem solving skills using analytical abilities, effective communication and team work.
- PE05 Graduates recognize need for continuous learning and prepare appropriately for all around development throughout the professional career.

#### **Students Association (TORQUE):**

An association of the students from the department of Mechanical engineering of SKSVMACET, formally known as TORQUE association is involved actively in organizing workshops, technical talks and department events in college.

The following students were appointed for various posts of TORQUE association.

- 1. President- Mr. Shashishekar
- 2. Vice President Mr. Viresh Pujar and Ms. Megha Soppihiremath
- 3. General Secretary Mr. Shahid Afridi Mulla
- 4. Cultural coordinator Mr. Anand Pujar, Mr. Dada Hayath , Mr. Anil Rathod & Ms. Chaitra Palled
- 5. Sports coordinator Mr. Shridhar Belamkar, Mr. Gururaj Kadapatti
- 6. Treasurer Mr. Anant. H, Mr. Manjunath K, Mr. Praveen Sankadal

#### **Events**

**1.** Association's reopening and Technical talk on 'How to prepare for Competitive exams and current trends in manufacturing process' (19-09-2019),

The commencement of the new academic year (2019) was marked by the reopening of the TORQUE association. Association's reopening was done by Mr. Lingraj Bhadrapur, Senior Section Engineer, South Western Railways Carriage Repair workshop Gadag Road, Hubli. He addressed and motivated the students by explaining the various process involved in the Railways workshop. He briefed on competitive exams as well as current trends in manufacturing process. He advised students to learn new software's related to mechanical engineering and keep themselves updated. He stressed on the level of involvement required while working on projects, seminars and internships done by the students to build their career. He also interacted with the faculties and discussed on the latest developments in the mechanical field.

Students found this session to be helpful for preparing various competitive exams and also got a clear picture of various career options are available before them. About 100 students participated in the session.





Mr. C. M. Kaggalgoudar, Mr. Vijaykumar Chavan, Mr. Lingraj Bhadrapur, Dr. Devendra K, Shashishekhar during association's reopening

#### 2. Technical Talk on 'Imparting Practical Knowledge in an Industry', (30-10-2020)

Department of Mechanical engineering arranged a technical talk on "Imparting Practical Knowledge in an Industry" on 30<sup>th</sup> October, 2019.It was a truly inspiring and honoring day for the mechanical family as we had our respected and experienced and ever young alumni Mr. Naglingswamy, Unit head of Jai Raj ancillary industries, Sanada Gujarat. This technical TALK was held with the vision of imparting practical and industrial based knowledge which had a direct correlation with the course "Management & Engineering Economics" for 5th semester Mechanical Engineering students. He delivered the presentation on production management and documentation practices in industry. students and the faculties of other departments also attended the session. Nearly 50 students attended this event. As an outcome of this session, students understood the skills they need to possess in order to cope up with the industrial environment.



*Mr. Naglingswamy.S having an interaction with students regarding practical knowledge in an industry.* 

#### 3. Technical Talk on 'Report Writing and Presentation Skills' (13/11/2019)

Department of Mechanical Engineering organized a Technical talk on "Report Writing and Presentation Skills". In any professional career especially those of engineering profession the presentation, communication and written skills are very crucial and play an important role as an engineer has to clearly and effectively disseminate the information and various ideas to his coworkers or colleagues for the projects, planning's and meetings to go smoothly as planned the absence of these skills can prove to be a big hurdle for a student to enter the co-operative world keeping this in mind Dr. Maheshwar C. Y. voluntarily delivered a talk for VII semester Mechanical Engineering Students on "Report Writing and Presentation Skills". He emphasised the importance of written and oral communication skills in the current global scenario.

This talk was delivered at the right time as the 7<sup>th</sup>semester students in the coming few months were about to keep their first step in the corporate world and the skills which they gained from this talk will surely help them in their careers, about 60 students attended the talk. Dr. Maheshwar C.Y. has a skilled knowledge in both technical and ethical and Technical aspects, it helped students to gain the knowledge they need to possess in order to give an effective

presentation and students seemed to have the confidence and the courage to face the future hurdles.

The students were thankful and felt a sense of confidence with the set of skills and the information gained from this talk apart from his guidance he motivated the students to always aim high and have an optimistic attitude and at the end he wished everyone the best for their upcoming careers.



Dr. Maheshwar C.Y. addressing students about Report Writing and Presentation Skills.

#### 4. Technical Talk on 'Fabrication and Welding' (18/10/2019)

Department of Mechanical engineering organized a technical talk on significance of "Fabrication and Welding", SKSVMACET Lakshmeshwar. Mr. Vijay Kumar Chavan delivered a talk for III semester Mechanical Engineering Students on "Importance of Fabrication and Welding". He emphasized the importance of different skill sets required for fabrication. He spoke on the tools the equipment's and the basic knowledge of using the tools required for the process of fabrication, he also stressed on the new technical advancements in the field of fabrication and spoke on the various methods of welding, about 60 students attended the session. He also spoke on the importance of safety measures that should be taken to avoid any mishap and injuries during the fabrication process. Mr. Vijaykumar Chavan led the session in a very impactful manner which helped the students to gain the practical knowledge about the fabrication and boosted the interest in them to thoroughly follow the session.



Mr. Vijaykumar Chavan explaining students, the tools used in welding process

#### 5. Technical Talk on 'Current Trends in Mechanical Software applications' (07-11-2019)

Department of Mechanical Engineering organized a technical talk on importance of 'Current Trends in Mechanical Software applications' by our Alumni Mr. Sairam Baddi a Mechanical engineer from Hubli delivered the presentation on current trends in Mechanical Software for industrial practice for the VII semester students. He discussed on various software's used in Production, Modeling and Simulation of mechanical components such as using software's SAP, NXG, CATIA. He advised the students on cracking the interviews and shared his experience, he recommended the students to not to worry too much about their future as worrying does no good and only takes up your energy and time that could otherwise be used for doing productive things. He suggested the students not to get discouraged if they don't get placed in any of the companies initially and also not to waste time, instead start working on improving their skill sets, carrying out different projects. Mr. Sairam Baddi is good in theoretical as well as practical knowledge which is necessary to face the problems in industries. As an outcome students found this a very interactive and helpful session. Students understood how the actual application of the gained knowledge can be imparted during the process.



Mr. Sairam Baddi interacting with students about the various software applications.

#### 6. Memorandum of Understanding (MOU) (19-11-2019)

To reduce the gap between the academia and the industry requirements HOD and faculty members of the Mechanical Department contacted the Shantala Training and Research Centre in Hubli and a Memorandum of Understanding (MOU) was signed to reduce the gap between

Industry and Academia.



MOU signed with Shantala group of industries

#### 7. Industrial Visit -1- GTTC Raypur Dharwad. (22/10/2019)

Students along with mechanical engineering department faculty members visited Goverenment Traing Tool Room Center (GTTC) Rayapur Darwad as a part of Industrial visit for 5<sup>th</sup> semester Mechanical Engineering. The main objective of the Industrial visit was to get awareness among regarding different machines and machining process. Students will able to improve their knowhow on the various parts of the machines along with flow process. Students learnt on the latest machines available and used in GTTC center.



Staff and students in GTTC campus

#### 8. Industrial Visit -2, Met Cut India Pvt Limited Rayapur Dharwad. (22/10/2019)

Mr.C.M.Kaggalagoudar and Mr. Prashant. Mulimani along with students of 5th semester visited Met-Cut India Pvt Limited Rayapur, Dharwad as a part of Industrial visit for Mechanical Engineering. The main object of the industrial visit was to gain the practical knowledge about process and machines. Met-Cut industries is engaged in producing the tooling components for the very precession machines. The students got to learn about the different types tooling methods. Heavy machines are installed in the Met-Cut industries



Mechanical Students in Met Cut tooling's industry

#### 9.Industrial Visit -3 Vijaya-Laxmi Group of Industries, Hubli (28/02/2019)

Students of mechanical engineering visited Vijayalaxmi Group of Industries, Hubli. Mr. Bhimsen addressed the students regarding the in-house work process of joint less rings, Hobbing finishing process on CNC Machine, Mr. Niranjan Udoshi (MEP Consultant) explained the ethical importance of engineering jobs and shared his Entrepreneurship qualities experience and motivated the students. Mr. S.V. Purohit Unit Head, Vijayalaxmi Group of Industries registered with Kaushalya Karnataka Mission of Government of Karnataka & National Skill Development Corporation of Government of India (NSDC), offered the Training Cum Internship program which is expected to lead to employment opportunity to the students through apprenticeship. This opportunity will have materialized through self-funded training like CNC Programming, Advanced Metrology & Measurement.



Staff in industry interacting with mechanical students

#### 10. Industrial Visit-4-GTTC, Hubli. (28/02 /2019)

Students of mechanical engineering under the coordination of Mr.C.M.Kaggalagoudar visited Government Train Tool Room Center (GTTC) Hubli. as a part of Industrial visit. The main objective of the Industrial visit was to gain knowledge regarding different tooling systems and machines. Students got to know on the various parts of the machines along with flow process. Students learn about the latest machines in GTTC center.



Mechanical students with staff members at GTTC



Staff at GTTC interacting with mechanical students

#### Workshops Conducted/Attended

1. Dr. Maheshwar C.Y. and Mr. Srikantgouda M. Patil attended and successfully completed an online based 8-week Workshop on Accreditation and Outcome Based Learning, organized by NPTEL-AICTE FDP from August to October 2019. It dealt with appropriate test items for all outcome-based objectives for both summative and formative evaluation, it plans an outcome-based curriculum document to meet NBA Requirements. After the successful completion of the workshop our faculty were very well informed and aware of the requirements needed for NBA accreditation it helped to speed up the process of getting an NBA accreditation of our institution.



#### Certificate of participation

- 2. Mr. Mahindra K. Hullur attended 5 Days Short Term Training Programme (STTP) on "Out Come Based Education & NBA Accreditation" held at KLEIT Hubballi from 27<sup>th</sup>Jan to 01<sup>st</sup> Feb 2020.NBA is an Accreditation Agency Representing India in the Washington Accord the parameters adopted by NBA for accreditation of Programme are based on initial capabilities, competence and skills keeping in mind the outcomes desired by the profession concerned. This workshop aided in the understanding of the process and the steps that need to be followed for an NBA accreditation.
- 3. Dr. Devendra.K and Mr.C.M. Kaggalagoudar attended a Workshop on "Faculty Development Programme" organized by Government Engineering Colleges, of Hassan and Hosahalli. On 27<sup>th</sup> Jan to 7<sup>th</sup> Feb 2020.This Programme dealt with the Light Weight Structures for Engineering Applications Through Campsites and Topology Optimization. Faculty development programs help in changing attitude towards faculty and teaching and also helps in aiding the gain of knowledge and skills this programme makes a faculty of what he does, and challenges him to continually do it better.

#### **Student Best Projects**

# **1.**Project Title: Power generation on highways by using vertical axis wind turbine and solar system

Importance of Projects: This project deals with the study of generation of energy from the wind available at highway. As we all know that thousands of vehicles are moving in the highway and due to heavy traffic high velocity wind is created in the highway. The attempt is made to convert the available wind into required power. This is just possible by installing vertical wind turbines at the either side or at the center of the highway. Meanwhile the power generation by solar concepts is also attempted in this project.

Guide Name: Mr. Suresh Bujari

Project Members: Anwar Hunsyal, Malatesh D., Maruti Bhajantri, Sachin Meeshi Recognition Details: VTU Financial Assistance

#### 2.Project Title: Fabrication of Hybrid Pedal Powered Water Purifier

Importance of Project: Electricity at rural and remote areas is extremely erratic thus making conventional water purifiers almost redundant for use. Thus, this project is specifically aimed at such areas and conditions of the world where water supply is erratic or non-existent and access to clean drinking water is sometimes at long distances. A pedal operated water filtration system is a water filtering apparatus which can filter water by using human muscle power via a pedal operated mechanism. Apart from pedal power, solar photovoltaic cells are used to convert solar energy into electric energy which is stored in batteries and later used by the purifier and during non-sunny days or cloudy days pedal power can be used to generate electric current using dynamo.

Guide Name: Ms. Mahindra K.Hullur

Project Members: Mr. Ajit Patil, Mr. Manu Halli, Mr. Rahul Barki, Mr. Rohit Dyapai Recognition Details: VTU Financial Assistance.

#### 3. Project Title: Solar Operated Semi-Automatic 6 Leg Multipurpose Machine

Importance of project: The Multipurpose machine is used to sowing the seeds and fertilizer spray into land and grass cutting for making lots of plant production in agricultural field. It is a mechanical device here no electrical or other power source is not required. The main objective of this project is to improve the current way of farming by introducing multipurpose equipment. It helps farmers by grass cutting and sowing the seeds and fertilizers. This machine can able to dig the ground and can sow the seeds and spray the water automatically. Applications of the project includes it is applicable in agricultural areas for seed sowing such as ground nut seed, lady finger seeds, maize, sunflower, etc. It can be used to spray the fertilizers for sugarcane plants, turmeric plants, tapioca plants, vegetable plants, etc.

Guide Name: Dr M. S. Tattimani Project Members: Mr. Anand Pujar, Mr. Shashishekar, Mr. Rahul Y .H, Mr. Naveen More Recognition Details: KSCST Assistance.

#### 4. Project Title: Design & Fabrication of Pneumatic Seeder for Nursery

Importance of project: India is the second largest producer of vegetables in the world. As we know the technology is developing rapidly in the recent years, this project aims an advanced feature for the Nursery purpose. With the help of pneumatic seeder. It can also help to dibble, spray water, chemical fertilizer and pesticides and leveling the soil after seeding. here all the movement of the machine controlled in control panel by the operator. This technology is fast emerging as an agro-enterprise in India since it has obvious advantages for both the grower and the entrepreneur.

Guide Name: Mr. Vijaykumar chavan

Project Members: Mr. Praveen sankadal, Mr. RaviKumarkurabar, Mr. Mohammed Afzal Mullanavar, Mr. Vinayak Badiger

Recognition Details: KSCST Assistance.

### Academic Performance

Toppers List				
Rank	1 <sup>st</sup> Semester	3 <sup>rd</sup> Semester	5 <sup>th</sup> Semester	7 <sup>th</sup> Semester
1 <sup>st</sup>	Guru Prasad (68.62%)	Gavisiddappa A. M. (72.1%)	Girish Hakki (78.13%)	Mohammed Junaid M. Mulla (82.88%)
2 <sup>nd</sup>	Abhishek M. Kundagol (67.63%)	Sagar G.Mulimani (64.8%)	Jagadish R. Vadakannavar (73.38%)	Veeraya S. (81.75%)
3 <sup>rd</sup>	Bharmgouda M. Shirkol (67%)	Gourav Meherwade (63.9%)	Subramanya Martad (71.75%)	Shahid Afridi Mulla (80.75%)

#### **Toppers List**

#### 1<sup>st</sup>Sem Result Analysis

Total Appeared	27	Percentage
FCD	0	0%
FC	5	18.51%
SC	2	7.40%
Total Pass	7	25.92%
Total Fail	20	74.07%

## 3<sup>rd</sup> Sem result Analysis

Total Appeared	55	Percentage
FCD	3	5.45%
FC	7	12.72%
SC	14	25.45%
Total Pass	24	43.63%
Total Fail	28	50.09%

## 5<sup>th</sup>Sem result Analysis

Total Appeared	57	Percentage
FCD	8	14.04%
FC	16	28.07%
SC	1	1.75%
Total Pass	25	43.85%
Total Fail	32	56.15%

#### 7<sup>th</sup>Sem Result Analysis

Total Appeared	58	Percentage
FCD	35	60.34%
FC	18	31.03%
SC	4	6.90%
Total Pass	56	98.27%
Total Fail	1	1.72%

## 8<sup>th</sup>Sem Result Analysis

Total Appeared	61	Percentage
FCD	38	63%
FC	15	24%
SC	04	6%
Total Fail	01	1%
Total Pass	60	98.36%

## **Online Activities During Lockdown**

## Staff member activities attended (teaching and non-teaching)

Sl.No	Staff Member Name	FDP	Conference/Paper	Webinar	Quiz
1	Mr. Vijaykumar Chavan	-	1	1	2
2	Dr. Devendra K.	-	-	4	3
3	Dr. Maheshwar C. Y.	10	3	8	7
4	Dr. M.S.Tattimani	10	2	8	10
5	Mr. C.M.Kaggalgoudar	9	-	14	15
6	Mr. Mahindra K. Hullur	3	-	5	2
7	Mr. Suresh Bujari	8	-	10	22
8	Mr. S.B.Badi	1	-	4	10
9	Mr. S.M.Patil	8	-	24	23
10	Ms. Padmavati Umachagi	3	-	5	15
11	Mr. P.A.Mulimani	2	2	4	1
12	Mr. Neeraj Kuratti	5	-	5	10
13	Dr. Prasanna Raravi	5	2	14	12
14	Mr. Sandeep Singh Hajaree	-	-	-	3
15	Mr. Veeresh Hubbali	-	-	-	5

#### **Publications:**

- Mahadev N. Harkude & Vijaykumar Chavan, "A Study of Fatigue and Fracture of Foam Cores Used in Sandwich Composites" TEST Engineering and Management, (Scopus Indexed) March- April 2020 ISSN: 0193-4120, page: 890 – 899.
- Mahadev N. Harkude & Vijaykumar Chavan, "Mechanical Characterization of Hybrid Thermoplastics Composites of Short Carbon Fibers" published at International Journal Of Engineering Research and Technology (IJERT), volume-7 and issue-7.Sept-2019,ISSN-2278-0181,page:01-07
- Maheshwar C. Y., C. M. Javalagi "An assessment of factors affecting ERP implementation-A Systemic View", International Journal of Recent trends in Engineering (Scopus Indexed), Volume 8, Issue 3, September 2019, page:3801-3808.
- Maheshwar C. Y., Mahantesh S. Tattimani, Babu Reddy, "Green Supply Chain Management (GSCM) Practices- A Review", Journal of Xidian University (Scopus Indexed) Volume 14, Issue 4, 2020, page :662-666
- Mahantesh S. Tattimani, Maheshwar C. Y., Babu Reddy, "An assessment of effect of rotational speeds on the castings in a vertical centrifugal casting process of Tin", Journal of Xidian University (Scopus Indexed) Volume 14, Issue 4, 2020, page: 654-661.
- Suresh S. Bujari, R.V. Kurahatti, "Effect of 2% Uncoated and Nickel coatedB4C on dry sliding wear of Aluminum Matrix Composite Material", International journal of Modern Engineering Research (IJMER), Vol 9, Issue 2, February 2019, Page:15-20
- Prasanna Raravi, Shivanand P. Prabhuswamimath, Vijayakumar Chavan, *"Factors Influencing ICT Adoption in SMEs"* TEST Engineering and Management, (Scopus Indexed) Volume-83, ISSN: 0193-4120, June -20. Page:76-84

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