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SAI VIDYA INSTITUTE OF TECHNOLOGY Rajanukunte, Bengaluru-560064 Department of Mechanical Engineering



(Department Newsletter) 2017-18

VISION

To establish Mechanical Engineering Department as an excellent centre to produce skilled and intelligent engineers as architects for a strong nation and the world

MISSON

- To impart quality technical education in Mechanical Engineering domain through an excellent teachinglearning environment.
- Instil ethical values among students to create technologically superior global man power through industry participation.

PROGRAMME EDUCATIONAL OBJECTIVES

- PEO1: Our graduates will be competent enough with strong fundamentals and sound knowledge in the field of Mechanical Engineering.
- PEO2: Our graduates will practice and incorporate design, manufacture and carryout research activities to mould themselves as successful engineers
- > PEO3: Our graduates will process themselves personally and professionally in taking up state of the art technological challenges and pursuing leadership roles.

Director's Message



I am delighted to note that Department of Mechanical Engineering, SVIT is bringing out edition department newsletter. second of Department newsletter definitely provides a to platform showcase the activities and achievements of the students and staff. This newsletter has recorded achievements and activities of Department of Mechanical Engineering such as: conferences attended by staff members and students, Student achievements innovative projects carried out by students with the guidance of staff, among others.

Prof. M R Holla

Principal's Message



I am extremely happy to know that the Department of Mechanical Engineering is coming out with second newsletter for the academic year 2017-18and this is an ongoing process portraying the various Departmental activities. It is great to find a considerable number of achievements in academic and non-academic activities which certainly prove that our staff and students are adequately equipped and possess necessary skill-sets to bring laurels to the institution. Mv Congratulations to Mechanical team.

- Dr. H S Ramesh Babu

From the Editor's Desk:

I am delighted to release second annual newsletter of Mechanical Engineering Department "FORCE" for the year 2017-18. During last year, various curricular and co-curricular activities were conducted successfully by the Department. Many Mechanical Engineering faculty members and Students have participated in various training programs and national/International conferences, which was the most encouraging factor; we want to continue this in the coming years also. Through periodic seminars, symposia, workshops, industrial visits and industrial training which is an integral part of the course, the students were equipped with technical knowledge, critical thinking skills and creativity to excel in the engineering profession. The Mechanical Engineering Department is committed to create a conducive atmosphere for the overall development of young brains into bright professionals of future. I believe, that in the years to come, armed with commitment and perseverance of the Mechanical Engineering Department faculty and staff, the department will continue to be the trend-setter in offering an array of curricular and co-curricular activities in order to achieve academic excellence. The Department not only believes and supports curricular Activities, the students of our department have participated in various cultural and sport Events in the recently conducted SANCHALANA-2018 and have bagged prizes adding making the Department Proud.

> Dr.A.V.Seetha Girisha Prof and HOD

Program Outcomes

РО	Title	Statement
1	Engineering Knowledge	Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems
2	Problem Analysis	Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural science and engineering sciences
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.
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.
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.
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.
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
8	Ethics	Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice
9	Individual and Team Work	Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary settings
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
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
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

OUR PRIDE STAFF

Sl.No.	Name	Designation	Qualification
1	Dr. A V Seetha Girisha	HOD & Professor	PhD
2	Dr. Raghavendra S	Associate Professor	PhD
3	Prof. Vijaya B	Associate Professor	ME (PhD)
4	Prof. Rajaneesh	Assistant Professor	M.Tech(PhD)
5	Prof. Shashidhar Shastry	Assistant Professor	M.Tech
6	Prof. Santosh S Gaidhankar	Assistant Professor	M.Tech
7	Prof. Arjun S	Assistant Professor	M.Tech(PhD)
8	Prof. Praveen Kumar K	Assistant Professor	M.Tech
9	Prof. Ravichandra V Koti	Assistant Professor	M.Tech(PhD)
10	Prof. Ravikumar T	Assistant Professor	M.Tech(PhD)
11	Prof. Arun R	Assistant Professor	M.Tech
12	Prof. Raghavendra M J	Assistant Professor	M.Tech(PhD)
13	Prof. Deepak C	Assistant Professor	M.Tech

SVIT Blog and SAVI You Tube videos

TROOD ECTS TROOM ECT	6 SAVI • Basic Electrical Engli	Engineering Lab) trol of lamp (SVIT SAVI VTU) + 14.46	8	SAI VIDYA INSTITUTE OF TECHNOLOG Learn to load.				enguingBakkdya.ac.in 😝 💙 🕙 🗐 🗂 tare Online Payment Latest News SkAS • Passements MOUs NRF Contact
Rechanical Engineering	VIEW FULL PLAYLIST			Odd Semesti	* Even Semester)				STUDY MATERIAL-ME Study Material-Mechanical Engineering
	IN DEAVALL			15//632	III SEMESTER Engineering Mathematics III Internal Science Basc Thermodynemics	15ME52	VSEMESTER Management & Engineering Economics Dynamics of Machines	10HE72	VII SEMESTER Engineering Economy Mednarkar Vonstons Hydraulica and Recurreics
DME-2 SAVI VIEW FULL PLAYLIST	MMM Lab SAVI VIEW FULL PLAYLIST	Heat Transfer Lab SAVI VIEW FULL PLAYLIST	design of machine elements-2 curved beams SAVI	15/4635	lecterics of Materials Jetal Casting and Welding Computer Alded Methine Drawing	15HE552 15HE554	Design of Machine Elementa-I Theory of Elesticity Non Thatitional Machining Project Management	10HE752 10HE758	Coerstion Research Theory of Restlothy Total Quality Hanagement Experimental Etness Analysis

Department of Mechanical Engineering initiated new methods of innovative teaching learning methods to facilitate slow learners as well bright students to understand the concepts of various subjects at all times for better learning through SAVI YouTube channel and Subject Blog

FACULTY ACHIEVEMENTS

✤ FACULTY DEVELOPMENT PROGRAMES

Sl.No	Faculty Name	FDP Name	Date & Place
1	Prof.Vijaya B	TEQUIP-IIISponsored FDP on PEDAGOGY Training in technical education	16 th to 20 th Jan 2018 VTU, Muddenhalli
2	Prof. Arun R	MATLAB for RESEARCH	2nd to 5th Aug-2017, SVIT, Bengaluru-64
3	Prof. Arun R	Computational Fluid Dynamics	22nd to 27th Jan-2018, SJBIT, Bengaluru-60

***** LIST OF PAPERS PUBLISHED BY FACULTY

Sl. No.	Name of the Faculty	Title of the Paper	Name of the Journal, Volume, Year of Publication		
1	Dr.Raghavendra.S	Development Of Portable Vehicle Water Washing Unit Using Modified Two Wheeler Bike	International Conference on Trends In Industrial & Value Engineering, Business And Social Innovation. Bangalore		
2	Dr.Raghavendra.S	Evaluation of short banana fiber reinforced epoxy composites	International Conf on Mechanical Automotive and Aerospace Engineering		
3	Dr.Raghavendra.S	Evaluation of short banana fiber reinforced epoxy composites	International Conf on Mechanical Automotive and Aerospace Engineering		
4	Prof.Vijaya B	Tensile and hardness testing of Aluminium alloy composites reinforced with alumina nano particles.	National conference at Sri Krishna Institute of Technology ,Bangalore		
5	Prof.Vijaya B	Wear testing of Aluminium alloy composites reinforced with Alumina nano composites by Taguchi method	National conference at Sri Krishna Institute of Technology ,Bangalore		

Memorandum of Understandings (MOUs)

• Cyber Metric Services

Department of Mechanical Engineering has signed an Memorandum of understanding with Cyber Metric Services India Pvt. Ltd on 27 February 2018. This program is to provide software training (CREO and Ansys) for students of Mechanical engineering.

STUDENTS ACHIEVEMENTS

Funded Projects

- ISHARE sanction of student Project: Year 2017-2018.A Project Proposal entitled "An experimental study on hydrate based vapor compression refrigeration system" Sanctioned amount for student Project: Rs.58000/
- KSCST sanction of student Project 40th series: Year 2016-2017, Project Proposal Reference No.: 4OS-BE- 0662. A Project Proposal entitled "An experimental study on desalination of saline water by using solar chimney" Sanctioned amount for student Project: Rs.8000/-
- KSCST sanction of student Project 41th series: Year 2017-2018, Project Proposal Reference No.: 41S-BE- 0035. A Project Proposal entitled "Design and Fabrication of power generation by using kinetic energy recovery system in bicycle" Sanctioned amount for student Project: Rs.6000/

Best Projects

Smart Helmet Using GSM and GPS Technology

Trilok Narayan Sah, AmitKumar, Mithun Kumar T K and Niranjan S, the students of 2018 batch developed a smart helmet under the guidance of Prof.Santhosh. A smart helmet is a special idea which makes motorcycle driving safer than before. This is implemented using GSM and GPS technology. The project was well appreciated and won first prize in National conference organised by KIT, Bangalore and also published in well known kananda newspaper.



ಹೆಲ್ಕೆಟ್ ಧರಿಸಿದ್ರೇನೇ ಗಾಡಿ ಸ್ಟಾರ್ಟ್ ಆಗೋದು!

ವಿಕ ಸುದ್ದಿಲೋಕ ಬೆಂಗ ರಾಜಾನುಕುಂಟೆಯ ಸಾಯಿ ವಿದ್ಯಾ ಇನ್ ಸ್ಟಿಟ್ಯೂಟ್ ಆಫ್ ಟೆಕ್ನಾಲಜಿ ಕಾಲೇಜಿನ ಮಕ್ಯಾನಿಕಲ್ ಎಂಜಿನಿಯರಿಂಗ್ ಕೋಸ್ ಕಟ್ಯಾ ಸುಕ್ಯಾನಿಕಲ್ಲ ನ ಅಂತಿಮ ವಿದ್ಯಾರ್ಥಿಗಳ ತಂ. `ಹನದ ಸುರಕ್ಷತೆ ಗ್ಲ ಹಲವು `ವ 'ಸ್ಮಾರ್ಟ್ `ವ 'ಸ್ಮಾರ್ಟ್ > ನಿಕಲ್ ಎಂಒ ಅಂತಿಮ ವರ್ಷ-್ರಾಗಳ ತಂಡವು ಸವಾ.. ೆ-ಇಕತೆ ಗಮನದಲ್ಲಿಟ್ರ ವಿಶೇಷತೆ -**** ಹಲ್ಲೆಟ್

ಆವಿಷ್ಠರಿಸಿದೆ. ಕಾಲೇಜಿನ ಎಸ್.ಜಿ. ಸಂತೋ ಕಾಲೇಜನ ಪ್ರಾಧ್ಯಾಪಕರಾದ ಎಸ್.ಜಿ. ಸಂತೋಷ್, ರಾಘವೇಂದ್ರ ಮತ್ತು ಡಿ.ಎಸ್. ಶ್ರೀಕಾಂತ್ ಅವರ ಮಾರ್ಗದರ್ಶನದಲ್ಲಿ ವಿದ್ಯಾರ್ಥಿಗಳಾದ

ಮಾರ್ಗದರ್ಶನದಲ್ಲಿ ವಿದ್ಯಾರ್ಥಿಗಳಾದ ಟಿ.ಕಿ. ಮಿಥುನ್ಕುಮಾರ್, ತ್ರಿಲೋಕ್ ನಾರಾಯಣ್ ಸಾ, ನಿರಂಜನ್ ಎಸ್ ಹಾಗೂ ಆಮಿತ್ ಕುಮಾರ್ ತಂಡ ಸ್ಟಾತ್ ಹೆಲ್ಲೆಟ್ ನಲ್ಲಿ ರೇಡಿಯೋ ಕ್ಯಾಣ್ಗೆನ್ನ ಹೆಲ್ಲೆಟ್ ನಲ್ಲಿ ರೇಡಿಯೋ ಕ್ಯೋಕ್ಸೆನ್ನ (ಆರಂಎಫ್) ಟ್ರಾನ್ಸ್ಮುಬುರ್ ಅಕವಡಿಸ ಸಿದ್ದು, ವಾಹನದಲ್ಲಿರಿಸೀವರ್ ಆಕುಡಡಿಸ ಲಾಗಿದೆ, ಇವಕಡಡ ನೆರವಿನಿಂದ ಹೆಲ್ಲೆಟ್ ಧರಿಸಿದರೆ ಮಾತ್ರ ವಾಹನ ಸ್ಟಾರ್ಶ್ ಆಗುವಂತೆ ತಂತ್ರಪ್ಪಾನ ರೊಪಿಸಲಾಗಿದೆ. ಕುಡಿದು ವಾಹನ ಹತ್ತಿದರೆ ಮುಂದ ಕುಡಿದು ವಾಹನ ಹತ್ತಿದರೆ ಮುಂದೆ ಹೋಗುವದಿಲ್ಲ ಸವಾರನಿಗೆ ಅಪಪಾತ ಹೋಗುವುದಿಲ್ಲ. ಸವಾರನಿಗೆ ಅಪಘಾತ ವಾದರೆ ತಪ್ಪ್ ನಂದೇಶ ರವಾನೆ ಯಾಗುತ್ತದೆ. ಈ ಸೌಲಭ್ಯಕ್ಕಾಗಿ ವಾಹನ ದಲ್ಲಿ ಜಿಪಿಎಸ್, ಜಿಎಸ್ಎಂ ಅನ್ನು ಅಕವ ಡಿಸಲಾಗಿದೆ. ಸ್ಟಾರ್ಟ್ ಹೆಲ್ಲೆಟ್ನ ಮತ್ತೊಂದು ವಿಶೇಷವೆಂದರೆ ಬಗ್ ಹಾಕಿ ನಿಲ್ಲಿಸಿದ್ದ ಗಾಡಿಯನ್ನು ಕಥಬ ಹೊತ್ತೊ ಯ್ತಾರಿ ಸನ್ಗರ್ ಮೂಲಕ ವಾಹನದ ಮಾಲಿಗದ ಮೊಬೆಲ್ಗೆ ಸಂಗೇಶ ರವಾಪನೆ ಯ್ದರೆ ಸೆನ್ಸರ್ ಮೂಲಕ ವಾಹನದ ಮಾಲೀಕರ ಮೊಬೈಲ್ಗೆ ಸಂದೇಶ ರವಾನ ಯಾಗುವಂತೆಯೂ ವ್ಯವಸ್ಥೆ ಇದೆ.



ಸ್ಮಾರ್ಟ್ ಹೆಲ್ಮೆಟ್ ಕಾರ್ಯ ನಿರ್ವಹಣೆಗೆ ಅನುಕೂಲವ ್ಷ - ಅಲ್ಟ್ ಕಾರ್ಯ ರ್ನಹಣೆಗೆ ಅನುಕೂಲವಾಗುವಂ ಚಕ್ರ ವಾಹನಕ್ಕೆ ಜಿಪಿಎಸ್, ಜಿಎಾ ಎ ತಂತ್ರಜ್ಞಾನ ಪರಿಕರ ಅಳವಡಿಕೆ ಸವಾರ, ವಾಹನದ ಸುರಕತೆಗೆ

'ಸ್ಮಾರ್ಟ್' ಉಪಾಯ ಎಸ್ವಿಐಟಿ ಕಾಲೇಜು ವಿದ್ರಾರ್ಥಿಗಳ ಆವಿಷಾ

ಸ್ಟಾರ್ಟ್ ಹೆಲ್ಕೆಟ್ ಆವಿಷ್ಕಾರಕ್ಕೆ ಸುಮಾರು 3-4 ತಿಂಗಳ ಕಾಲ ಸಮಯ ತೆಗೆದುಕೊಂಡೆವು. ಸುಮಾರು 20 ಸಾವಿರ ಹಣ ನಿಮಾರು 20 ಸಾವಿರ ಹಣ ಖರ್ಚು ಮಾಡಿದ್ದೇವೆ. •ಟೆ.ಕೆ. ಮಿಥುನ್ಕುಮಾರ್,





ಸ್ಮಾರ್ಟ್ ಹೆಲ್ಡೆಟ್ ಆವಿಷ್ಕರಿಸಿರುವ ರಾಜಾನುಕುಂಟೆಯ ಸಾಯಿ ವಿದ್ಯಾ ಇನ್ ಸ್ಟಿಟ್ಯೂಟ್ ಆಫ್ ಟೆಕ್ನಾಲಜಿ ಕಾಲೇಜಿನ ಮೆಕ್ಯಾನಿಕಲ್ ಎಂಜಿನಿಯರಿಂಗ್ ಪದವಿ ಎದಾ ರ್ಥಿಗಳ ತಂಡ.

*** BEST OUTGOING STUDENT 2017-18**

Ms. Apoorva, IVA14ME003 of Eight semester student has been awarded best outgoing student of Department. Prof. Arjun S Assistant Professor is mentor

• PUBLICATION BY STUDENTS

Sl. No	USN	Name of the Student	Title of the paper	Name of the Journal/Conference	Publication details (Volume ,Issue, page number, year)	
1	1VA14ME012	DHANUSH.U	Wear testing of Al Alloy composites	National Conference on		
1	1VA14ME051	VINAY Y S	reinforced with	Recent trends in		
	1VA14ME035	PRAVEEN	Alumina Nano-	Mechanical Engineering and	volume 7, Special	
	1VA14ME020	KISHAN KUMAR	Composites by Taguchi Method	Applied Sciences	issue 7,pg 246,2018	
	1VA15ME411	NIVED G A	Development of	International	Edition 6, Issue 1,Pg 38,2018	
	1VA15ME414	RUKESH V NAVEENA JOGI	portable vehicle water washing unit using	conference on Trends in Industrial and value engineering business		
2	1VA15ME409	B	modified Two wheeler			
	1VA15ME406	KIRAN J	bike	and social innovations		
	1VA14ME006	APOORVA K	Design and Simulation	National Conference on		
3	1VA14ME042	SHETTY SHISHEER ASHISH R	of Integrated main landing gear attachments of an	Recent trends in Mechanical Engineering and	volume 7, Special issue 7, 2018	
	1VA14ME007	ASIIISIIK	Aircraft	Applied Sciences	2010	
	1VA14ME003	ANIRUDH SRIDHAR		National Conference on	volume 7, Special issue 7, 2018	
4	1VA14ME008	BHARATH G	Design of a Composite control surface of an	Recent trends in Mechanical		
	1VA14ME026	MOHAMMED ABRAAR	Aircraft	Engineering and Applied Sciences		
	1VA15ME401	ASHISH V S		National Conference on Recent trends in Mechanical Engineering and Applied Sciences	volume 7, Special issue 7,pg 802018	
5	1VA14ME023	MANISH N	Design & Thermal Analysis of Power supply Modules			
	1VA14ME004	ANKITH C L		National Conference on Recent trends in Mechanical Engineering and Applied Sciences	volume 7, Special issue 7,2018	
	1VA14ME019	KARTHIK.K.K	Frictionless antilock			
6	1VA14ME041	SACHIN.M	breaking system			
	1VA15ME404	E S MANJUNATH				
	1VA15ME402	CHANDAN M V				
7	1VA15ME412	RAHUL D	Fabrication and Development of 2S/4S	National Conference on Recent trends in Mechanical Engineering and Applied Sciences	volume 7, Special issue 7,pg 167 2018	
7	1VA15ME403	DINESH KUMAR K S	Cultivation vehicle for agricultural Application			
	1VA15ME408	KUMAR R		Applied Sciences		
	1VA14ME014	GIRISH K V	Preperation and	National Conference on Recent trends in Mechanical	volume 7, Special issue 7,pg 235,2018	
8	1VA14ME030	NAVEEN T R	charecterisation of polylactic acid and			
	1VA14ME040	RAVI KUMAR L	ABS using different 3D printing	Engineering and Applied Sciences		
	1VA15ME410	NAVEEN KUMAR V	Two Wheel vehicle self balancing using	National Conference on Recent trends in	volume 7, Special issue 7,pg 267,2018	

9			Gyroscope	Mechanical	
Í	1VA14ME010	CHANDAN G.S	Gyroscope	Engineering and	
	1VA15ME400	ABHISKEKA		Applied Sciences	
	1VA14ME027	MURALIDHAR LOKANDEY	Experimental Study of	Journal of Emerging Technologies and Innovative Research	volume 5, 5 issue 5,May 2018
10	1VA14ME011	C.OMPRAKASH REDDY	Turbulent flow in Vapour Compression		
	1VA14ME009	BIPIN MURARI	Refrigeration System		
	1VA13ME014	CHIDHAMBAR.K .N	An Experimental		volume 7, Special issue 7,2018
	1VA13ME037	R DEEPAK	Investigation of	National Conference on	
11	1VA13ME004	AKSHAY KUMAR S	Vibration Characteristics on structures using Tuned	Recent trends in Mechanical Engineering and	
	1VA13ME055	CHANDRA SHEKAR.M.T	liquid bowl damper	Applied Sciences	
	1VA14ME002	ANIRUDH B A			volume 5, 5 issue 5, May 2018
	1VA14ME028	NAGESH N	Design and Testing of	Journal of Emerging Technologies and Innovative Research	
12	1VA14ME039	RAHUL S	Magneto-Rheological Damper for Vehicle Suspension		
	1VA14ME013	GHANASHYAM	Suspension		
12	1VA14ME002	ANIRUDH B A		National Conference on Recent innovations in Science Engineering and Technology	volume 7, Special issue 7,pg 69 2018
13	1VA14ME028	NAGESH N	Design and Testing of Magneto-Rheological		
	1VA14ME039	RAHUL S	Damper for Vehicle Suspension		
	1VA14ME013	GHANASHYAM U S			
	1VA14ME001	AKSHAY M	Roof Crush Analysis of	National Conference on	volumo 7. Gradial
	1VA14ME034 1VA14ME046	PRAJWAL S SYED HUZAIFA	Passenger car for	Recent trends in Mechanical Engineering and Applied Sciences	volume 7, Special issue 7,pg 19, 2018
14	1VA14ME048	ULLAS G	vehicle safety and crashworthiness		
	1VA13ME008	BHARATH R	Tensile and hardness	National Conference on	
	1VA13ME012	CHETHAN.Y	testing of Aluminium	Recent trends in	volume 7, Special
15	1VA14ME401	CHETAN REDDY K R	alloy composites Reinforced with	Mechanical Engineering and	issue 7,pg222, 2018
	1VA13ME032	MURALI KRISHNA R C	alumina Nano-particles	Applied Sciences	
16	1VA14ME405	MITHUN KUMAR	Smorth-In-	National Conference on Recent trends in Mechanical Engineering and Applied Sciences	volume 7, Special issue 7,pg 275, 2018
10	1VA14ME406 1VA13ME005	NIRANJAN S AMITH KUMAR	Smart helmet using GPS and GSM		
	1VA14ME047	TRILOK NARAYAN	technology		
		SAHA			