



|| Jai Sri Gurudev ||  
**ADHICHUNCHANAGIRI UNIVERSITY**  
**BGS INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF MECHANICAL ENGINEERING**



# YANTHRIK



**Chief Editor : Dr Manjunath S.H**

**Professor and Head**

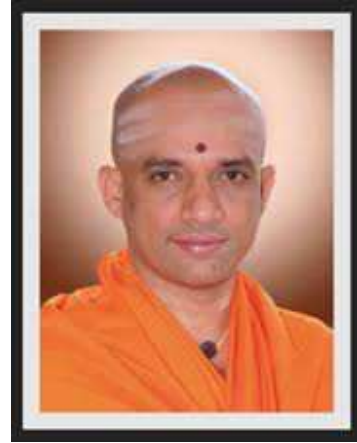
**Editors : Mr. Mahendra.H.S**  
**Asst. Professor**

**Coordinators: Mr. Pradeep.H**  
**Asst. Professor**

**Mr. Krupesh.K.S**  
**Asst. Professor**

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# Blessings...!



If there are some who are proud of their money power, there are others who are proud of their learning. There are people who feel that they have grown politically and others look at them as though they have reached an unchallenged place.

The moment you feel selfish about things you become engulfed by ego. Ego is the first seed that enters a person who leans towards selfishness. Then afterwards, it grows and grows to become a huge tree in no time. Ego never co-habits with righteousness. Similarly, goodness never stays with ego.

Man should grow a virtuous person. It is easy for a virtuous person to achieve bigger things. Therefore, it is imperative that a person destined to achieve great things must guard himself or herself against ego. That is the reason why he must exercise utmost care in controlling his desire all the time and should be moderate in his food and entertainment and so on. If he fails to do so, then he is doomed to fall. Recovery from that fall is almost impossible. Considering this eventuality, we must understand that we can avoid this pitfall by keeping ego at bay.

When man embraces selfishness, he has given the green signal for ego to invade him. On the contrary, if he is selfless and is compassionate towards others there will be an extraordinary power that guards him always stationed behind him. With this power at hand, he can succeed in achieving good things. Moreover, he will be able to overcome all kinds of challenges and obstacles, winning respectable positions in the hearts of all. The ego causes the doom of an individual and comes in the way of generosity of heart. If the individual fails to overcome his ego, all his achievements will be washed away by the flood of his selfish motives.

The great teacher Vyasarayaru asks his disciples as to who would ascend to heaven. All the pupils looked at each other not knowing the answer. But Kanakadasa replied, "If 'I' goes, I may be able to go to heaven". Here 'I' is nothing but ego. His meaning is that if I overcome the ego, I can go to heaven. But man has embraced selfishness to such an extent that there is no room for any other thing inside him. He is so full of himself that he pretends to know everything.



# **Three-Days Faculty Development Programme On ANSYS ITS APPLICATIONS IN INDUSTRIES**

**26<sup>th</sup> to 28<sup>th</sup> November 2020**

Around 15 Faculties and 50 students of 6<sup>th</sup> semester are actively participated from Mechanical branch.  
Organized by Department of ME.

Resource Persons,

**Mr. Aaron Aswin Murugan**, Application engineer, Entuple Technologies Pvt. Ltd., Puna-411045





## Workshop on "Teaching for Understanding in Engineering Education"

BGS Institute of Technology conducted a workshop on "Teaching for Understanding in Engineering Education" on 8th February 2020, Saturday.

The resource person was Mrs. V Manjula, Founder & Head, M/s PIPALTREE Education. She spoke about

1. Communication and presentation skills.
2. Content Management.
3. Skills to acquire knowledge about current technologies.
4. Principal, HOD"s and All staffs were present.



## WORKSHOP ON "3D PRINTING & 3D SCANNING"

Department of Mechanical Engineering Organized a workshop on "3D Printing & 3D Scanning" on 11<sup>th</sup> March 2020'. The resource person was Mr. Syed Hayath and Mr. Harshith S, Youth tech solutions, Mysuru.





## Departmental activities under YANTHRIK CLUB



## Jnana- Vijnana- Tantrajnana Mela-2020



ORGANISED BY: Sri AdichunchanagiriMahasamathana Math  
DHELD ON : 20.02.2020  
PLACE : Sri KshetraAdichunchanagiri, NagamangalaTaluk, Mandya District.



**SPECIAL LECTURE ON ANCIENT INDIAN SCIENCE**



BGS Institute of Technology Organized a **Special Lecture on “Ancient Indian science”** on 19th February 2020. The resource person was Prof. M K Sridhar, Registrar, SVYASA, Yoga University, Bangaluru.



**Technical Talk on Engineering Drawing on 25<sup>th</sup> Feb 2020**

**Resource person: Dr. Annaiah M H, Vice Principal, SCE, Bengaluru.**





# INTERNATIONAL WEBINAR SERIES 2020



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INTERNATIONAL WEBINAR SERIES 2020-21  
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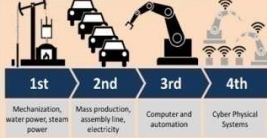
Speaker:

**Murali Bharadwaj**  
Technical Program Manager,  
Payment Integrity Solutions,  
NASDAQ, Atlanta

Topic: Emerging Technologies in Mechanical Engineering

## Emerging Technologies in Mechanical Engineering

Industry 4.0 (Fourth Industrial Revolution)



IIoT (Industrial Internet of Things)



18<sup>th</sup> May 2020 5:00 PM-IST



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Speaker:

**Bharath Nagabhushan**  
Manager-Product Quality  
PCA Motors  
Chennai

Topic: INDUSTRIAL QUALITY

## ACTIVITY BASED COSTING

Go ahead and explore it with your own data. Go ahead and explore it with your own data. This is an example text. This is an example text.



16<sup>th</sup> May 2020 10:30 AM-IST



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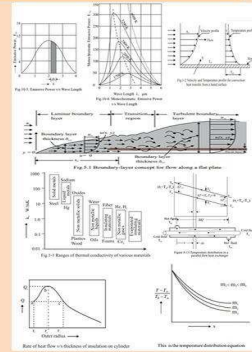
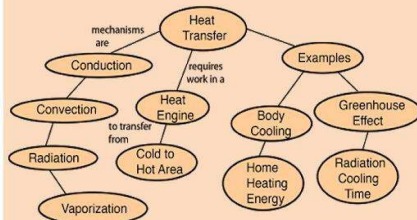
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Speaker:

**Dr. NAGARAJ A.M.**  
Principal, RGIT,  
Bangalore

Topic: STEADY STATE AND UNSTEADY STATE CONDUCTION, HEAT TRANSFER



7<sup>th</sup> May 2020 4:00 PM





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Speaker:

**Dr. Abhishek Appaji**  
Joint Tressure and Sight Chair  
Dept. of Medical Electronics  
BMSCE, Bangalore

Topic: **Writing a Competitive  
Research Grant Proposal**

### 3. What makes a good grant proposal?

...one theoretical example starts.

This research proposal will explore advanced quantum algorithms for encryption and develop a theoretical framework of a quantum network on top of virtual private network. To achieve the deployment of high security of information exchange in critical systems (e.g., financial, defense, military, medical), this proposal considers substituting advanced algorithms for encryption with quantum algorithms. This proposal examines advanced security algorithms: Rivest-Shamir-Adleman (RSA), Diffie-Hellman-Merkle (DH), Shor, Advanced Encryption Standard (AES), Quantum Key Distribution (QKD). Furthermore, this research will explore the possibilities to deploy QKD in UAE or substitute with a virtual model (e.g., QKD as a Web Service), without huge investments.



Writing a Competitive  
Research Grant Proposal

### Writing Successful Grant Proposals

Abstract: A grant proposal is a document that describes the project you are proposing to fund. It is a key document in the grant-making process. It is a document that describes the project you are proposing to fund. It is a document that describes the project you are proposing to fund. It is a document that describes the project you are proposing to fund.

**Key Areas of the Application**  
The key areas of the application are: 1. The project description, 2. The budget, 3. The timeline, 4. The impact, 5. The sustainability, 6. The evaluation, 7. The dissemination, 8. The ethics, 9. The risk management, 10. The communication.

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8<sup>th</sup> May 2020 10:30 AM



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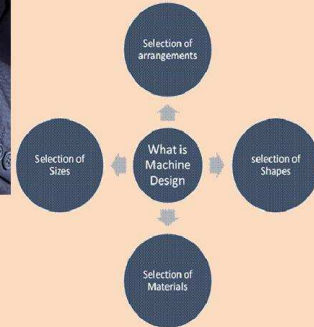
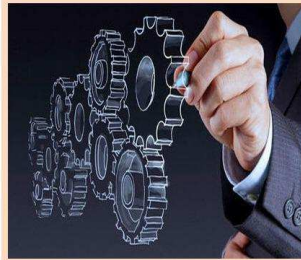
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Speaker:

**Dr. ANNAIAH M.H.**  
Vice President, SCE,  
Banglore

Topic: **MACHINE DESIGN  
CONCEPT**



6<sup>th</sup> May 2020 4:00 PM

**World Environmental Day was celebrated on 5<sup>th</sup> June 2020**





## PhD VIVA VOCE

**Mr. Nagesh D**, Research Scholar bearing the **USN 1SG13PMN01** has completed his defence on 09/03/2020, Research topic was “Development and Mechanical Characterization of AL-6061, Boron And Graphite Metal Matrix Composites” under the guidance of **Dr. Manjunath S H. Prof. and Head**, Department of Mechanical Engineering.



## BEST PAPER AWARD

Mr. Pradeep H, Assistant Professor, Department of Mechanical Engineering was presented a paper entitled “Design And Analysis Of Effects of Different Fin Perforations” at International Conference on Future Intelligence in Science And Technology, organized by Sinhgad Institute of Technology and Science, Pune, Maharashtra, INDIA., and awarded as **Best paper**.





## GRANTS RECEIVED

submitted by	Title of the project	Sanctioned Year	Agency	Amount
Dr.Manjunath S H	Effective Low Cost Heat Transfer Devices for Cooling High Power LEDs	2020	KREDL	1,00,000.00

## PUBLICATIONS BY FACULTIES

Sl. No	Name of the Author (s)	Title of the Article	Journal	Publishing Year	Category (National / International)
1	Dr. Manjunath S H	Experimental Study on use of Simarouba Glauca Biodiesel for CI Engine Performance	IJMPERD	2020	International
2	Dr. Manjunath S H	Numerical Evaluation of Thermo-Hydraulic Performance Index of a Double Pipe Heat Exchanger Using Double Sided Louvered Winglet Tape	Journal of Thermal Engineering	2020	International
3	Dr. Girish K B	Numerical Evaluation of Thermo-Hydraulic Performance Index of a Double Pipe Heat Exchanger Using Double Sided Louvered Winglet Tape	Journal of Thermal Engineering	2020	International
4	Dr. Hemaraju	Inelastic Behavior of En 31 Steel Metallic Surface Subjected to Hard Body	IOP Conference Series: Materials Science and Engineering,	2020	International

5	Dr. Hemaraju	Impact Of Sized Abrader And Normal Load On Deformation Morphology Of En 24 Steel Subjected Abrasion	AIP Proceedings 2204	2020	International
6	Mr.Mahendra H S	Inelastic Behavior of En 31 Steel Metallic Surface Subjected to Hard Body	IOP Conference Series: Materials Science and Engineering,	2020	International
7	Mrs.Nischitha K M	Effect of Additives on lubricant Properties of Epoxidised Pongamia Oil	Studies in Indian Place Names (UGC Care Journal)	2020	International
8	Mrs.Nischitha K M	High Temperature Oxidation and Corrosion Behaviour of APS	Journal of Bio- and Tribo-Corrosion© Springer Nature Switzerland AG 2020	2020	International

## CONFERENCE ATTENDED BY FACULTIES

Sl. No	Name of the Author (s)	Title of the Article	Conference	Date	Category (National / International)
1	Dr.Ranganatha Swamy L	Effect of Injection Timings and Duration on Port Injection of Oxygenated Fuels in Diesel Engine Applications	ICTEES-2020, Vimal Jyothi College of Engineering, Kannur, Kerala.	18 <sup>th</sup> & 19 <sup>th</sup> July 2020	International
2	Dr. Hemaraju	Studies on Theoretical and Tribological behaviour of Al6061-WC metal Matrix Composites	ICTEES-2020, Vimal Jyothi College of Engineering, Kannur, Kerala	18 <sup>th</sup> & 19 <sup>th</sup> July 2020	International
3	Mr.Pradeep H	Design And Analysis Of Effects of Different Fin Perforations	International Conference On Future Intelligence in Science And Technology, Sinhgad Institute Of Technology and Science, Pune, Maharashtra, INDIA	31 <sup>st</sup> May 2020	International
4	Mrs.Nischitha K M	“Effect of Additives on lubricant Properties of EpoxidisedPongamia Oil“	SVIT, ICTTSTM- 2020, Bengaluru	12th July 2020	International



## **FDP/WORKSHOP ATTENDED BY FACULTIES**

Sl.No	Name of the Faculty	FDP/ Workshop on	Organized by	Date
1	Dr.Ranganatha Swamy L	Mechanical Engineering Virtual Labs	NCET, Bangalore	6 <sup>th</sup> to 13 <sup>th</sup> May 2020
2	Dr.Ranganatha Swamy L	Emerging Areas in Manufacturing	Vimal Jyothi Engineering College, Kannur, Kerala, India.	25 <sup>th</sup> to 30 <sup>th</sup> May 2020
3	Dr. Hemaraju	Emerging areas in Manufacturing	VJEC, Kerala	25 <sup>th</sup> to 30 <sup>th</sup> May 2020
4	Dr. Hemaraju	Mechanical Engineering Virtual Labs	NCET, Bangalore	6 <sup>th</sup> to 13 <sup>th</sup> May 2020
5	Dr. Hemaraju	Future Automotive Industry	Dr.Rangarajan Engg College	27th May 2020
6	Mr.Mahendra H S	Mechanical Engineering Virtual Labs	NCET, Bangalore	6 <sup>th</sup> to 13 <sup>th</sup> May 2020
7	Mr.Pradeep H	Mechanical Engineering Virtual Labs	NCET, Bangalore	6 <sup>th</sup> to 13 <sup>th</sup> May 2020
8	Mr.Pradeep H	CFD simulation of thermal management of batteries and power converters	VEL TECH HIGH TECH	28 <sup>th</sup> May 2020
9	Mr.Pradeep H	Emerging Areas in Manufacturing	VJEC, Kannur, Kerala	25 <sup>th</sup> to 30 <sup>th</sup> May 2020
10	Mr.Pradeep H	Intellectual Property Rights And Innovations	East Weast institute of Technology, Bengaluru,	23 <sup>rd</sup> to 27 <sup>th</sup> June 2020
11	Mr.Pradeep H	Research proposal Writing and opportunities in the field of science	BIT, Banglore	06 <sup>th</sup> to 11 <sup>th</sup> July 2020
12	Mr.Keerthi B L	Mechanical Engineering Virtual Labs	NCET, Bangalore	6 <sup>th</sup> to 13 <sup>th</sup> May 2020
13	Mr. Krupesh K S	Mechanical Engineering Virtual Labs	NCET, Bangalore	6 <sup>th</sup> to 13 <sup>th</sup> May 2020
14	Mr. Hemanth C	Mechanical Engineering Virtual Labs	NCET, Bangalore	6 <sup>th</sup> to 13 <sup>th</sup> May 2020
15	Mr.Sharath S	Mechanical Engineering Virtual Labs	NCET, Bangalore	6 <sup>th</sup> to 13 <sup>th</sup> May 2020
16	Mrs.Nischitha K M	Mechanical Engineering Virtual Labs	NCET, Bangalore	6 <sup>th</sup> to 13 <sup>th</sup> May 2020
17	Mrs.Nischitha K M	Advancements in dynamic analysis of machine elements	MED, VVCE, and ISHRAE, MYSURU	27 <sup>th</sup> July 2020
18	Mrs.Nischitha K M	Heating, ventilation, Air conditioning & refrigeration	MED, VVCE, and ISHRAE, MYSURU	3 <sup>rd</sup> August 2020

# Toppers

## 8<sup>th</sup> Semester



NIHAL JAIN D P  
4BW16ME028  
92.85%



AKSHAY H G  
4BW16ME001  
92.14%



NIRIKSHA B R  
4BW16ME053  
91.28%

## 6<sup>th</sup> Semester



B L GOWDA  
4BW17ME005  
86.75%



4BW17ME040  
ROHITH K  
85.25%



HARSHA H S  
4BW17ME058  
84.25%

## 4<sup>th</sup> Semester



GURUPRASAD  
18MEE012  
93.62%



MANOJ GOWDA H D  
18MEE023  
93.50%



SHREYAS C  
18MEE034  
93.25%

## 2<sup>nd</sup> Semester



SINCHANA ARADHYA S B  
19MEE028  
86.14%



JEEVITHA M T  
19MEE008  
84.14%



MANJUNATH B  
19MEE015  
84%

## **Department of Mechanical Engineering**

**VISION:** Producing competent and sustainable Mechanical Engineers through Excellence, Innovations and Ethics.

**MISSION:**

**M1:** Offering quality Education by competent faculty.

**M2:** Providing adequate infrastructure and learning ambience.

**M3:** Developing inclination towards higher education, research, entrepreneurship and professional ethics.

**M4:** Promoting interaction with industries.

**PEO'S**

**PEO-1:** Graduate will pursuing successful career & higher education.

**PEO-2:** Graduates will be able to Design, Analyze, Fabricate & Manage Applications of Mechanical Engineering.

**PEO-3:** Graduates will display Professional Ethics to work in a team & lead the team by effectively Communicating the ideas.

**PEO-4:** Graduates will practice Life long learning

**PSO'S**

**PSO-1:** Ability to acquire competencies in Designing, Analyzing and Evaluating the Mechanical Components.

**PSO-2:** Ability to work Professionally by applying Manufacturing and Management practices.