

## **HALF YEARIY MECHANICAL MAGAZINE**

**AY: 2017-18**

**VOLUME: 1**

**ISSUE: JAN-JUNE**



# **GEETHANJALI**

## **INSTITUTE OF SCIENCE AND TECHNOLOGY**

**3rd Mile, Bombay Highway, Gangavaram(V), Kovur(Md), S.P.S.R Nellore(Dt)**

**[www.gist.edu.in](http://www.gist.edu.in)**

## **Editorial Message**

Hailed as the first draft of creativity and innovation, a magazine presents a social and tasteful conversation of a powerful organization, where the refined imaginative sensibilities and abilities of its young personalities go to the front. It holds mirror to the bunch exercises and activities embraced by the foundation to etch the multifaceted characters of adolescents besides being a media platform. On this earth shattering event of drawing out the magazine, we, the publication group, appreciatively recognize the unmistakable assortment of commitments made by the students and the staff.

“All progress comes beyond comfort zone”

## **Editorial Board**

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# VISION-MISSION

## Vision

To evolve as a prospective learning centre for producing quality human resources.

## Mission

**DM<sub>1</sub>:** Impart Technical knowledge through effective teaching-learning practices

**DM<sub>2</sub>:** Provide congenial academic environment for honing technical skills

**DM<sub>3</sub>:** Develop professional and entrepreneurial skills through collaborations

**DM<sub>4</sub>:** Promote leadership skills along with social and ethical values

## PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

Graduates of B.Tech in Mechanical Engineering program shall be able to

**PEO1:** Analyze Mechanical Engineering problems and provide sustainable solutions.

**PEO2:** Pursue successful professional career in industry, academia or research.

**PEO3:** Engage in continuous learning to keep abreast with emerging technologies with the sense of professional ethics.

**PEO4:** Contribute in multi-disciplinary teams through effective interpersonal skills.

# Qualities of a Good Student

Historically the term student refers to anyone who learns something. However, the recent definition of a student is that anyone who attends a school, college or university. Based on personal experience and research, I list down the qualities of a good student.

## **1. Attitude :**

Basically, a good student should possess the ability and willingness to learn new subjects even the subjects are not interesting.

## **2. Academic skills :**

Acquiring academic skills is the most important quality of a good student. Ability to read comprehensively, to write effectively, to speak fluently, and to communicate clearly are the key areas in which a good student must be proficient.

## **3. Ability :**

A good student should have the ability to apply the results of his or her learning to achieve the desired goals in a creative way.

## **4. Perceptiveness :**

How well a student can interpret and perceive meanings from a conversation greatly determine the quality of a good student. A good student always perceives right meaning from conversations, but an average student often misunderstands the original thoughts of a speaker or writer and derives a wrong conclusion.

## **5. Self discipline :**

Discipline in managing the time is an important factor that every good student must possess. Often, delaying the tasks, such as writing assignments, reading text books, etc. may negatively impact the ability of a student to deliver the goods.

## **6. Understanding rather than memorizing concepts:**

A lot of surveys suggest that students must understand the concepts rather than just memorize them. The memorized facts and theories will stay in student's memory until they leave the school, college or university. Once out of school, the student will totally forget the core concepts that they have learned. A good student always understands instead of memorizing the concepts.

## Careful Answers to 5 Interview Questions

### **Tell me about yourself?**

**Don't:** "I was born in....I like walks on the beach..."

**Do:** In 2 minutes or less, tell why you're qualified.

### **What would you change about you last job?Don't:**

"My boss. He was totally unrealistic." **Do:** "I wish we had a larger training budget."

### **What is your biggest weakness?**

**Don't:** "I really don't have any big weaknesses."

**Do:** "Not delegating enough. I realize I get over-whelmed when I think I have to do it allmyself."

**Why should I hire you? Don't:** "Because I'm the best candidate."

**Do:** "I'm a hard worker with a proven track record."

**Do you have any questions for me? Don't:** "Uh, no, I don't have any questions."

**Do:** "Can you walk me through a typical day of someone in this role?"

**Do:** "What can I help to clarify that would make hiring me an easy decision?"

**R. NIKHIL (152U1A0337), III ME**

## Quick Tips for Better Time Management

01. Create a daily plan
02. Peg a time limit to each task
03. Use a calendar
04. Use an organizer
05. Know your deadlines
06. Learn to say “NO”.
07. Target to be early
08. Time box your activities
09. Have a clock visibly placed before you 10.set reminders 15 minutes before
11. Focus
12. Block out distraction
13. Track your time spent
14. Don't fuss about unimportant details
15. Prioritize
16. Delegate
17. Batch similar tasks together
18. Eliminate your time wasters
19. Cut off when you need to
20. Leave buffer time in-between

**SK. RAFI (142U1A0345) , IV ME**

## Eco Bricks

The ECO Bricks are packing of plastic into bottles to make building blocks is a technique that has popped up organically around the world. The technique builds upon borders the bottle building techniques of German architect Andreas Froese (using sand-filled PET bottles) in South America in 2000. Later on Alvaro Molina began packing plastic into bottles on the island of Ometepe in 2003



### Construction

An Eco brick is made of a plastic bottle or container of some sort (including paper/laminatemilk cartons) which has random plastic waste compressed inside it.

### Criticism

- It is un-decomposable and un-destructible.
- On melting it releases a compound gas which is very harmful to the health and environment.
- It weakens the ozone layer.

### Applications

- It is Economical than normal bricks used for construction.
- The huge waste plastics can be used as construction material.
- Protection of O-Zone.

## Save Water and Save Life

Water covers 70% of earth's surface. But in that only 3% of water is clean and suitable for human consumption. Water has a very important role to play in our daily life. According to a survey, the average family of four members, uses 450 litres of water per day, 1,64,000 litres of water per year. If it is continued in future we are going to face water wars. To avoid this we have to save water for the coming generations.

### Some Important Tips to Save Water at Home :

- ◆ Turn off the tap when you brush your teeth which can save 6 litres of water per minute.
- ◆ Place a cistern displacement device in your toilet cistern to reduce the volume of water used in each flush.
- ◆ Take a shorter shower. Shower can use any thing between 6 and 45 litres per minute.
- ◆ Install a water butt to your drain pipe and use the water collected to water your plants, wash your windows or cars.
- ◆ Water your garden with a watering can rather than a hose pipe. A hose pipe uses 1,000 litres of water an hour. Watering the plants in the early morning and late afternoon will reduce evaporation and also save water.
- ◆ Repair dripping faucets by replacing washers. If your faucet is dripping at the rate of one drop per second, you can expect to waste 2,700 gallons per year which will add to the cost of water and sewer.
- ◆ Verify that your home is leak-free, because many homes have hidden water leaks. Read your meter before and after a two-hour period when no water is being used. If the meter does not read exactly the same, there is a leak.
- ◆ When adjusting water temperature, instead of turning water flow up, try turning it down. If the water is too hot or cold, turn the offender down rather than increasing water flow to balance the temperatures.

So please save water and save life.

And save water, secure your future

**SK.SHAHBAAZ(152U1A0345), III ME**



## **Gender Discrimination**

*Women and men are equally important for the growth and development individual and social lives however careful analysis of Indian society indicates that the situation is not good for women folk. The sex ratio in Indian population is changing and becoming unfavourable towards women.*

Women's are discriminated against from early childhood the same is manifested in discrimination against them from very early period the incidence of infanticide , early marriage, emphasis on domestic activities and lesser emphasis on education and career have made women's life full of problems. The dependence on others i.e husband,parents have become fate of the majority of the women folk the girl child is usually burdened with responsibilities that are beyond her capacity. Such exploitation functions are obstacles in the process of development and growth of the girl child.

*Women are becoming target at atrocities of many types. They are assigned diverse responsibilities and treated as relatively weaker and less competent. This image is still prevailing previous sections of society women subjected to discrimination in learning doctor deaths and exploitations of various kinds which are very common it reflects in the discriminatory practice of the family such as distribution of food and social activities when a child matures and becomes an adult she is often found to be physically and mentally constrained. They are more able to realize their potentials nor to contribute to the mainstream. Their contributions are often limited to families and that too are ignored and also susceptible to violence.*

*Today the presence of women in various occupations and public offices is much more prominent than what it used to be during earlier periods however the Indian society has still to go a long way as far as gender equality is concerned .*

# Poems

## The Phone

I am the phone,  
Which every one does own...!  
I connect many friends, Also I come in different trends...!  
I be with my owner in their home,And follow them wherever they roam..!  
When there is a fall in my charge,They recharge me in-charge..!  
For few I am ferocious,But many think I am precious..!  
Though there is a rise in my bill,People who throw me away are nil..!  
No one calls me boring,  
Because they always remember me as loving..!

**B. CHANDU (142U1A0328), IV**

## ME

## Fear

Everything I fear Anxiety I cannot bear  
When parent are there to careWhy unnecessarily fear?  
Stress of exam I cannot bearResult I fear  
Problems I discuss with my peerBut some may not care  
Mask of confidence I wearThough I really have fear Why do I fear ?  
The answer is now where in the airYou just make me clear  
Why do people fear? Father ,please tell me dearMy child, I too have fear He said in my  
ear  
All have fear  
For me it is clear.

**M. SUMEESH(162U1A0326), II ME**

## What "Mother" Means

"Mother" is such a simple word,  
But to me there's meaning seldom heard.  
For everything I am today,  
My mother's love showed me the way.

I'll love my mother all my days, For enriching my life in so many ways. She set me  
straight and then set me free,

And that's what the word "mother" means to me. Thanks for being a wonderful mother, Mom!

**SK. ARIF BABA (142U1A0339), IV ME**

## A Time To Believe

To believe is to know that  
every day is a new beginning.  
Is to trust that miracles happen,  
and dreams really do come true.

To believe is to see angels  
dancing among the clouds,  
To know the wonder of a stardust sky  
and the wisdom of the man in the moon.

To believe is to know the value of a nurturing heart,  
The innocence of a child's eyes  
and the beauty of an aging hand,  
for it is through their teachings we learn to love.

To believe is to find the strength  
and courage that lies within us  
When it's time to pick up  
the pieces and begin again.

**T. GANESH(172U1A0340), I ME**



**SD. HANEEF(142U1A0349), IV ME**



**M. PAVAN KALYAN(142U1A0323), IV ME**



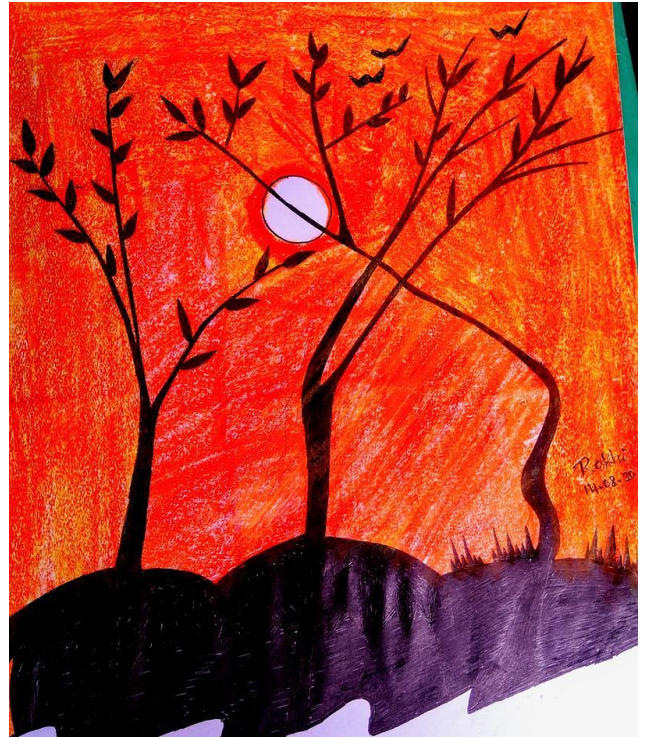
**T. MANOJ KUMAR(172U5A0313), II ME**



**C. HARISH(162U1A0306), II ME**



**K. VENKATESWARLU (172U1A0315), I ME**



**R. CHARAN KUMAR(152U1A0335), III ME**



**R. CHARAN KUMAR(152U1A0335) ,III ME**



**M. GUNA SEK HAR,( 152U1A0322), III ME**

# Stories

## Friends Forever

Once upon a time, there lived a mouse and a frog, who were the best of friends. Every morning, the frog would hop out of the pond to visit the mouse, who lived inside the hole of the tree. He would spend time with the mouse and go back home. One day, the frog realised that he was making too much of an effort to visit the mouse while the mouse never came to meet him at the pond. This made him angry, and he decided to make things right by forcefully taking him to his house.

When the mouse wasn't looking, the frog tied a string to the mouse's tail and tied the other end to his own leg, and hopped away. The mouse started getting dragged with him. Then, the frog jumped into the pond to swim. However, when he looked back, he saw that the mouse had started to drown and was struggling to breathe! The frog quickly untied the string from his tail and took him to the shore. Seeing the mouse with his eyes barely open made the frog very sad, and he immediately regretted pulling him into the pond. So don't take revenge because it can be harmful to you.

**K. BALAJI (152U1A0314), III ME**

## Helping others

Once there was a small boy named Shankar. He belonged to a poor family. One day, he was crossing through the forest carrying some woods. He saw an old man who was very hungry. Shankar wanted to give him some food, but he did not have food for his own. So he continued on his way. On his way, he saw a deer who was very thirsty. He wanted to give him some water, but he did not have water for himself. So he went on his way ahead.

Then he saw a man who wanted to make a camp but he did not have woods. Shankar asked his problem and gave some woods to him. In return, he gave him some food and water. Now he went back to the old man and gave him some food and gave some water to the deer. The old man and the deer were very happy. Shankar then happily went on his way.

However, one day Shankar fell down the hill. He was in pain but he couldn't move and no one was there to help him. But, the old man who he had helped before saw him, he quickly came and pulled him up the hill. He had many wounds on his legs. The deer whom Shankar had given water saw his wounds and quickly went to the forest and brought some herbs. After some time his wounds were covered. All were very happy that they were able to help each other.

**Moral:** If you help others, then they will also help you.

**J.VENU GOPAL(162U1A0317),II ME**

## RIDDLES AND SILLY QUESTIONS

1. What are two things people never eat before breakfast?
2. Why did the man throw a bucket of water out the window?
3. Why did the man throw the butter out the window?
4. Why did the man put the clock in the safe?
5. What has two hands and a face, but no arms and legs?
6. What has a neck, but no head?
7. Where is the ocean the deepest?
8. "What letter of the alphabet is always waiting in order?"
9. Why did the man throw his watch out of the window?
10. What State in the United States is High in the middle and round at the ends?
11. How do you spell mousetrap?
12. How many legs does an ant have?
13. How many people are buried in that cemetery?
14. What can't be used until it's broken?
15. What do tigers have that no other animals have?
16. What is Black and white and read (red) all over?

**G. PRASANTH (172U1A0306) , I ME**

## PROGRAM OUTCOMES (POs)

Engineering Graduates will be able to:

- PO1. Engineering Knowledge :** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- PO2. Problem Analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- PO3. 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.
- PO4. 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.
- PO5. Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- PO6. 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.
- PO7 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.
- PO8 Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- PO9 Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO10 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
- PO11 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.
- PO12 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.

## PROGRAM SPECIFIC OUTCOMES

At the time of graduation student of B. Tech in Mechanical Engineering will be able to

- PSO1: Professional Skills:** Utilize the knowledge of materials and manufacturing principles to plan, design and monitor the production operations of an Industry.
- PSO2: Design Skills:** Employ the governing laws of thermodynamics, heat transfer and refrigeration & air-conditioning to design and develop thermo-fluid system.