

LIFE

Management for Engineers



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GME 100

General and Professional Ethics

Content

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- Who is an engineer?
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- Time management for engineering students
- Balance between studying and socializing
- Responsibility versus having fun
- What is the importance of high GPA?
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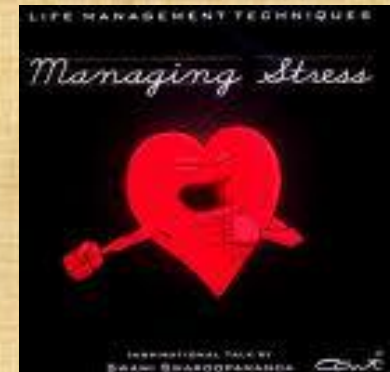
What is life?

- A straight line has no meaning.
- As the line inclines, makes curve, up and down, a word comes out with a meaning.
- A life with no pain, no stress, no frustration, no sickness, no dislike, no love pain is not a life. No pain, no life.
- Ups and downs, hopes and disappointments make you a more complete person.
- Falling in love is probably the most beautiful thing but it usually has more pain than pleasure.
- Pleasure itself is the result of pain.
- 2 days weekend is only fun because of the 5 day work.



What is life management?

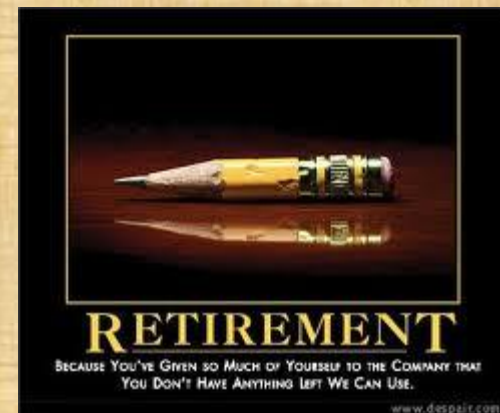
- Life management is time management, emotion management, priority management, and management of other people around us.
- The time period during college is not a time you prepare for life but it is a time of the life itself.
- Once you are done with all the exams, you can start being a happy person and live happily after, right?
- Imagine yourself working very hard to please your boss so that you can keep your job and have a wealthy and happy retirement.
- Imagine yourself in retirement where all you talk about is the various illnesses you have and how you try to handle them with no possibility of curing them.



Job Stress: By the Numbers

83%	of workers plan to look for a new gig when the economy heats up.
35%	of "top performing" corporate employees are at "high risk" of leaving their jobs.
60%	of workers feel pressure to work too much.
83%	of employees want more time with their families.
56%	of workers are either somewhat or completely dissatisfied with their jobs.

Sources: Society for Human Resource Professionals, Sibson Consulting, Gallup Poll, Monster.com



Who is an engineer?

- Engineer is a problem solver.
- He/she has required capacity and knowledge to learn any engineering application in a reasonable time.
- He/she applies this knowledge to solve the problems in the work place.
- An engineer is different from a worker or a technician.
- A worker needs to know how to operate an equipment.
- A technician needs to know how to install, operate, and fix an equipment.
- An engineer can run a factory with hundreds of different equipment.
- An engineer is usually a leader.
- What is the most important characteristic of a leader?



What are the top 5 characteristics of a leader?

Five Qualities of Effective Leaders

1. They are self-aware and prioritize personal development. ...
2. They focus on developing others. ...
3. They encourage strategic thinking, innovation, and action. ...
4. They are ethical and civic-minded. ...
5. They practice effective cross-cultural communication.

What are 10 characteristics of a good leader?

The Top 10 Qualities of a Great Leader

1. Vision. ...
2. Inspiration. ...
3. Strategic & Critical Thinking. ...
4. Interpersonal Communication. ...
5. Authenticity & Self-Awareness. ...
6. Open-Mindedness & Creativity. ...
7. Flexibility. ...
8. Responsibility & Dependability. ...
9. Patience & Tenacity. ...
10. Continuous Improvement

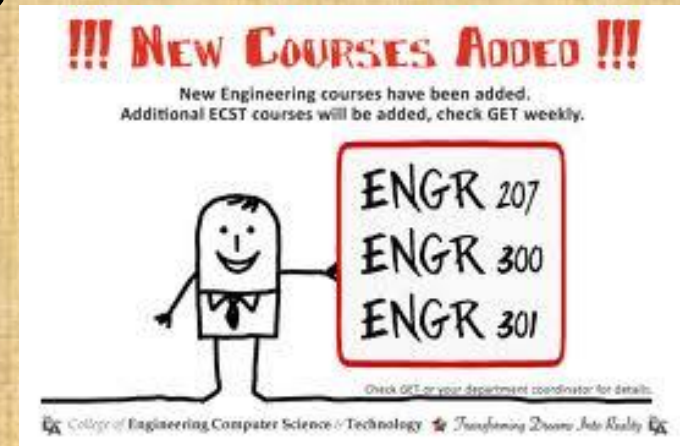
Why become an engineer?

- You go to a factory and a worker makes you feel ashamed because you do not know how to use the equipment he is using. Maybe you do not even know the name and function of the equipment. Is something wrong with you?
- To make more money than the worker or technician.
- To feel superior to other people.
- To make your family proud of you.
- To better express yourself .
- To better explore your potential.
- To meet interesting people, make friends at intellectual level, find your soulmate in college.
- To experience the enjoyment of being a college student.



The meaning of engineering curriculum for engineering practice

- Courses teach you the fundamental knowledge necessary to understand the principles of engineering systems.
- As you learn the topics, you learn how to solve problems by solving many number of problems in courses.
- Courses do not teach you how to fix the fridge but teaches you how and why it works.
- But it would be nice to learn how to fix the fridge, dishwasher, automobile at school. Right?
- How many courses do you need for this?
- Which one is more valuable?
- How to fix a fridge or understand why and how a fridge cools?



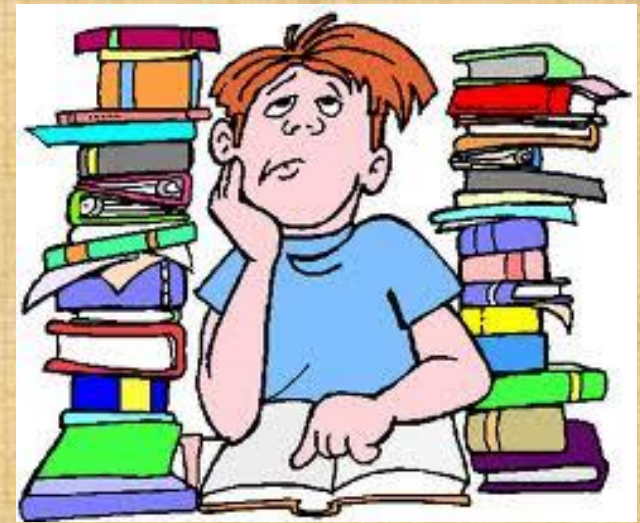
Time management for students

- A full time student spends 40 hours a week on courses.
- It is a time of work not a time of vacation.
- If you spend 20 hours in classrooms, then you need to study 20 hours a week.
- If you are not doing this, do not complain?
- What if you had to work for tuition or you had to get bank loan for tuition and other expenses?
- You do not have to study on weekends.
- In 5 days, you still have 40 hours of free time for eating, exercising, talking, making friends, exploring, falling in love, etc.



How to study?

- Study to learn the subject.
- Do not study for the grades.
- Concentrate on main concepts. Do not try to satisfy all of your curiosities. Do that when you graduate.
- Learn concepts. Do not learn how to solve certain type of problems. Concepts do not change but the problems always change. Learning concepts allow you to solve any problem you may face in practice.
- Do not wait for proper time and location to study. Every time and every place is perfect for studying.
- Professors do not teach concepts, you learn them. But some professors make it easier for you to learn.



How important is GPA?

- GPA is important.
- Very important.
- Extremely important.
- But you are more important.
- Your health is more important.
- Your state of mind is more important.
- Your eternal future is more important.
- If you satisfy your responsibilities, you will get good GPA.
How good? It mostly depends on your potential and the time you spend on studying. Which one has more effect?
- Do not compare yourself to others. Every person is different.



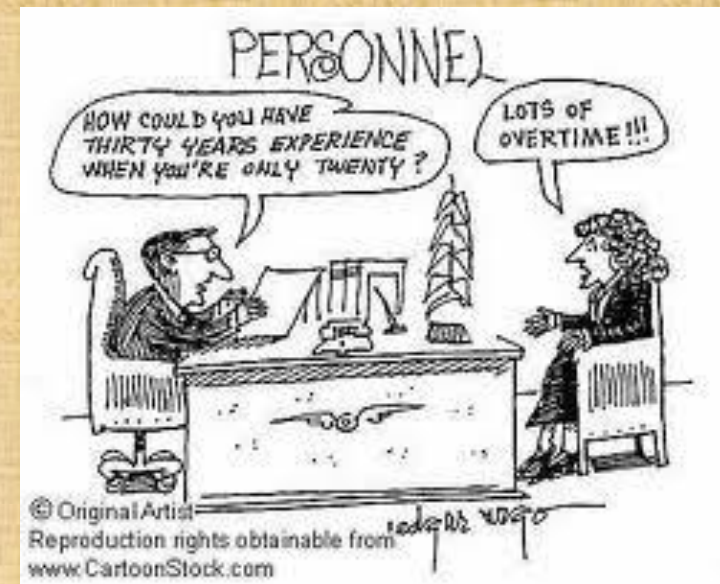
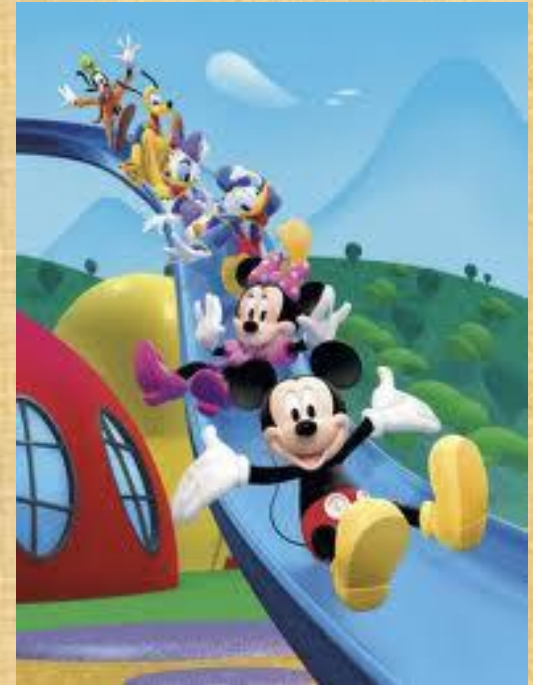
Balance: studying or socializing

- **Student A:** Studies 40 hours a week after class times with no time for other stuff.
- **Student B:** Studies 20 hours a week. Then he socializes, volunteering, active in MCE/ASME club, exercise, plays football.
- **Student C:** Studies 10 hours (or less) a week. Then, he socializes, active in MCE/ASME club, exercise, plays football.
- Who is the happiest?
- Who has most stress?
- Who would you hire?
- Who would I accept for graduate studies?



Responsibility versus having fun

- Student A, B, C: Who is most responsible?
- Can you be responsible and still have fun?
- Being responsible does not mean to get high grades.
- It means to attend lectures, do assignments, and spend enough time to study.
- You can only have fun and enjoy other staff if you satisfy your responsibilities.
- If your grades are bad and your family has great expectations, can you really enjoy the time you skip a class, and really have fun?



Take responsibility

- Take responsibility for things you can control.
- Example: studying
- Be fine with things you cannot control.
- Example: Grade
- Our job is to work for things. God's job is to create the results. Do not interfere with God's job.
- **AN EXAM:** He could not solve problem 1 because he did not attend the class that day and he did not study afterwards. He solved problem 2 because he knows the topic but he made some silly mistakes and lost significant points.
- He should be angry at himself because of which problem?
- **EXAMPLE:** Celaleddin Harzemsah: He is about to go to war with Mongolians. His people says he would be the victorious. He says: My job is to fight. It is God's business to make me the winner or loser. I do my job, and I do not interfere with God's business.



Mind your own business

- Do not worry about the job today.
- Just worry about your tasks today.
- You will worry about job when you graduate.
- God gives enough patience to stand against daily problems. Do not use this patience for the past and future.
- Your responsibility will be to look for a job.
- The result is not in your hands.
- The job you want may not be the best job for you? You ask something, but end up with something else.



Graduate school or practice

- Do master if you can.
- Do Ph.D. only if you want to be an academician.
- Choosing between work and master? Choose work.
- GPA is very important if you do master or Ph.D.
- GPA should be 3.00 for master in USA.
- For work, experience and good communication skills are more important than GPA.



Points on ethics

- You may sell your time and talents. Do not sell your **integrity**.
- You can learn from everyone. Treat everyone with mercy and respect.
- You did not choose your parents. You will not choose your spouse. When the time comes you will end up with your fate.
- Always be thankful for what you have.
- Do not get defensive about your mistakes. Admitting your mistakes makes you a more mature person.
- Do not generalize. Love all the creatures because of the Creator.

