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Department of Electronics and Communication Engineering

Sri Vasavi Engineering College
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VISION

To develop the department into a centre of excellence and produce high quality, technically competent and responsible Electronics and communication engineers

MISSION

To create a learner centric environment that promotes the intellectual growth of the students.

To develop linkages with R & D organizations and educational institutions for excellence in teaching, learning and consultancy practices.

To build the student community with high ethical standards.

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HELEN KELLER

Brief life of a woman who found her own way: 1880-1968

Totally DEAF and BLIND from the age of 19 months, world famous at seven for having learned to read, write, and communicate through the finger alphabet, Helen Keller took it into her head, as a teenager addicted to books, to apply for admission to Radcliffe College. She really wanted to go to Harvard, which would not consider her. For four years she prepped and was tutored for examinations in English literature, French, German, Latin, Greek, history, and mathematics. Working on a typewriter, she earned satisfactory grades in all subjects; for the bugaboo of geometry, she relied on tactile diagrams made of raised letters and lines.



Keller and Anne Sullivan, her resourceful, demanding teacher and companion from the age of six, struggled together through four years of college like a pair of Siamese twins, joined by their flying fingers. Described as excellent in English letters, Keller graduated cum laude in 1904 into a world unprepared for an educated freak, even a talented and good-natured one. What could these two beautiful, celebrated, mutually dependent women, without family resources, do in life?

A few years earlier, Keller had discovered that she could write effectively and she pursued that calling, undaunted by an early incident in which her powerful memory entangled her in involuntary plagiarism. While at Radcliffe, she composed a vivid personal account

of her own miraculous coming of age through language after five and a half years of blank solitude. A discerning editor of the *Ladies' Home Journal* commissioned her to produce a series of six personal narratives under the title *The Story of My Life*. Even though she was still struggling with college courses, Keller completed the series in 1902 and brought out a full-length book with the same title in 1903. *The Story of My Life* has become a major classic of American literature and autobiography. Keller was 23.

Five years later, she wrote *The World I Live In*, a book of personal essays, originally published in *Century Magazine*, to answer skeptics and critics of her first book and to refute the claim that she and Sullivan were impostors. Literary critics such as Van Wyck Brooks, Walter Percy, and Cynthia Ozick, and cognitive scientists such as William James, Oliver Sacks, and Gerald

Edelman have found in *The Story of My Life* and *The World I Live In* two of the most revealing inside narratives of the formation of what we call human consciousness. The books also offer an exciting case history of an unprecedented feat of individual education against crippling odds and make clear why Alexander Graham Bell, Mark Twain, and Andrew Carnegie regarded Keller and Sullivan as two of the most remarkable women of their time.

Keller embraced life enthusiastically — whether horseback riding, swimming, visiting Niagara Falls, or giving lectures with Sullivan. The two women also performed as themselves on the vaudeville circuit. But they could not support themselves that way and soon had to rely on a trust fund set up for them by wealthy friends in Boston and New York. After Keller became a convinced socialist, joining labor parades and feminist demonstrations, she found a certain awkwardness in living off the fruits of capitalism. In 1910 she felt compelled to decline Andrew Carnegie's offer of a generous pension, explaining, "I hope to enlarge my life and work by my own efforts, and you, sir, who have won prosperity from small beginnings, will uphold me in my decision to fight my battles without further help than I am now receiving from loyal friends and a generous world." She and Carnegie nevertheless became good friends, and later she was obliged to accept his offer.

Increasingly, Keller's time and energy were devoted to philanthropy, and she traveled all over the world for the American Foundation for the Blind to raise money and support for the deaf, the blind, and the needy. In 1955, when she was 75, Harvard acknowledged her with its first honorary degree ever granted to a woman. The citation for the new doctor of laws stated, "From a still, dark world she has brought us light and sound; our lives are richer for her faith and her example."

Now University Professor emeritus at Boston University, Roger Shattuck, a Junior Fellow at Harvard from 1950 to 1953 and scholar of comparative literature, is the author of The Banquet Years, Proust's Way, and Forbidden Knowledge. Most recently, he is coeditor, with Keller biographer Dorothy Herrmann, of an unabridged edition of Helen Keller's The Story of My Life (Norton, 2003) and editor of an unabridged edition of Keller's The World I Live In (New York Review Books, 2004).

*Peter Piper picked a peck of pickled peppers
A peck of pickled peppers Peter Piper picked
If Peter Piper picked a peck of pickled peppers
Where's the peck of pickled peppers Peter Piper
picked?*

INNOVATION

ORGANIC LIGHT EMITTING DIODE (OLED)

What is the OLED technology all about?

OLED technology has great potential for new uses such as flexible paper -thin panels white OLED .White OLED was developed as device with extremely high power efficiency and long lifetime.

OLED panels are made from organic materials that emits light when electricity is applied through them .These organic materials are situated between two electrodes .Since OLEDs do not require a backlight and filters(like LCD displays do),they are more efficient and simpler to make flexible and rollable. The number of emissive(organic) layers depends on desired light output. OLEDs have great picture quality, fast response rate and wide viewing angles.



How does an OLED work?



OLED work in similar way to conventional diodes and LEDs, but instead of using layers n-type and p-type semiconductors , they use organic molecules to produce their electrons and holes. A simple OLED is made up of protective glass or protective glass or plastic. The top layer is called seal bottom layer is substrate. In between those layers ,there's a negative terminal(sometimes called cathode) and a positive terminal(called the anode).In between the layers made from organic

molecules called the emissive layers(where the light is produced ,which is next to the cathode) and conductive layer(next to the anode).

To make an OLED work, we simply attach a voltage across the anode and cathode. As the electricity starts to flow the cathode receives electrons from the power source and the anode loses them. Now added electrons are making the emissive layer negatively charged, while the conductive layer becomes positively charged. When hole meets an electron, the two things cancel out and release a brief burst of energy in the form of a particle of light-a photon. This produces continuous light for as current keeps flowing .We can make coloured by adding different coloured filters into our plastic sandwich just between the layers.

The main difference between an **LED and OLED screen is pixels of an OLED screen are self-illuminating, whereas LED are used to light an LCD display .OLED screen features have wider viewing angle than LED. With OLED, the colours do not get washed out when viewers watch from extreme angles.**

Advantages

- Improved image quality –better contrast high brightness, a wider colour range and much faster refresh rates.
- Lower power consumption.
- Simpler design that enables ultra- thin, flexible, foldable and transparent displays.



Applications

OLED displays are mainly used in digital devices such as

OLED Produces A True Black And Infinite Contrast Ratios



high-end television systems

computer monitors

pocket-size systems such as android phones

media players

digital cameras

portable gaming consoles and mini screens.



by

**R KAVYA SRI
18A81A0444**

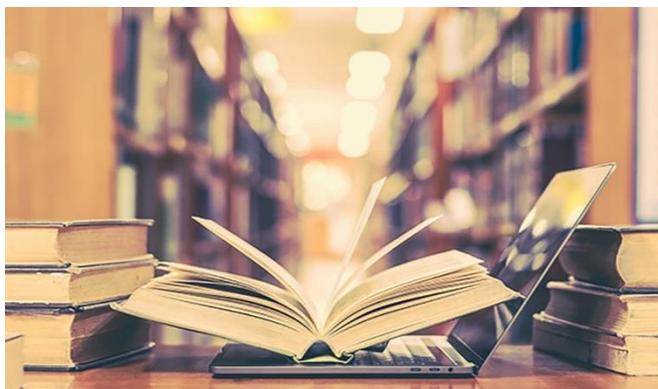
CURRENT ISSUE

INTERNET CANNOT REPLACE THE BOOK AND LIBRARY

The Internet is very much like television in that it takes time away from other pursuits, provides entertainment and information, but in no way can compare with the warm, personal experience of reading a good book. This is not the only reason why the Internet will never replace books, for books provide the in-depth knowledge of a subject that sitting in front of a computer monitor cannot provide. We can download text from an Internet source, but the aesthetic quality of sheets of downloaded text leave much to be desired. A well-designed book enhances the reading experience.



The book is still the most compact and inexpensive means of conveying a dense amount of knowledge in a convenient package. The easy portability of the book is what makes it the most user-friendly format for knowledge ever invented. The idea that one can carry in one's pocket a play by Shakespeare, a novel by Charles Dickens or Tom Clancy, Plato's Dialogues.



Not only has the art and craft of printing and book manufacturing been greatly improved over the centuries, but the great variety of subject matter now available in books is astounding, to say the least. In fact, the Internet requires the constant input of authors and their books to provide it with the information that makes it a useful tool for exploration and learning.

Another important reason why the Internet will never replace books is because those who wish to become writers want to see their works permanently published as books - something you can hold, see, feel, skim through, and read at one's leisure without the need for an electric current apart from a lamp. The writer may use a word processor instead of a typewriter or a pen and pad, but the finished product must eventually end up as a book if it is to have value to the reading

public. The writer may use the Internet in the course of researching a subject just as he may use a library for that purpose, but the end product will still be a book.

Books are also companions in a way that the Internet can never be. The author speaks to us directly through the pages. We hear his or her voice. If the story is compelling, it will become part of our own mentalities and provide us with an experience which we will have had through the author. We will have known what it was like to survive a concentration camp, or live the life of a great actress or statesman or musician, or suffer climbing Mount Everest, or rejoice in making a great scientific discovery. Each of us has only one life to live, but we can vicariously live a great many other lives through books written by other human beings. That is why the power of the book can never be replaced by the Internet.



Each of us has only one life to live, but we can vicariously live a great many other lives through **books** written by other human beings. That is why the power of the **book can** never be **replaced** by the **Internet**. That is not to say the **Internet** is any less than it is. ... You **can** even discuss the latest **book** you've read. Many people think that **computers should replace textbooks** because they are cheaper. However, I believe that **computers should not replace textbooks**. **Computers** shouldn't **replace textbooks** because using **computers** decreases concentration, increases school spending, and creates physical health problems.

“Internet cannot become a substitute of libraries because internet information is not always authentic or reliable. Also the internet has a high power consumption rate and it is unable to reach the masses. The library can use internet services as a helping hand to get\share information but it cannot replace the significant of newsgroups, discussion form, sharing of books, which makes libraries exceptional.”

By
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17A81A0479

CAREER GUIDANCE

Why Career Guidance is Important?

Have you ever thought about the career guidance? Well! I think majority of students do not consider career guidance a significant issue. Hence, they have no or very little realization about the importance of career guidance. As a matter of fact, career guidance is a very important aspect of your life. In fact, it can make or break your career.

In this article, we will discuss about the importance of career guidance. Not just students but working professionals also should give importance to it. Usually, students and employed professionals have no idea of right career guidance. Hence in this article, I will shed some light on this issue.

Nothing Succeeds Like Success

As we say nothing succeeds like success. And career guidance is very essential for success. If you want to see your career moving in a right direction then career guidance is of utmost importance. Everyone wants to be successful but they do not get the right guidance to make right decision at right time. If you have a pre-planned guidance for your career then it can make a lot of difference. Today, awareness about career guidance is still very low among younger generation. The culture of going to a counsellor is almost non-existent in our country.

Therefore, for success it is important that you get right guidance from right person.

Planning your future

If you are a high school student then your entire future is lying in front of you. It is you with your parents who need to make right decision about your career from now on. It is essential that for a bright future you must start planning from now on. And for right planning you need right guidance. Right career guidance can tell you, about the career options that could suit you the most. Hence, you can start preparing for that option from the beginning. It will give you ample amount of time for right kind of preparation. This could only possible if you take guidance for your career.

Bring Clear Sight of Your Goal

Everyone has some goal in his or her life. So, what is ambition or target as far as your career is concerned. You have to decide in advance and right career guidance could really help you in that.

The best part of career guidance is that it is very objective as well as strategic. You could get a clear picture what your goal should be or must be. Otherwise it is quite normal that students fail to figure out, what they want to do in near future. Career guidance from right person could really help you to figure out perfect career for you.

If you are confident that this is going to be your career then you can start preparing for it, from now on.

Choosing Right One from Myriads of Career

Today, in the time of globalization, when there are myriads of career options, it is normal that novice students get lost in those options. In short, I want to say, they are not able to decide a career which is best for them. The reason for this confusion is hundreds of careers available in just one line. This confusion could easily be clarified with the help of career counselling or guidance. Moreover; there are people who have malice intentions. Unfortunately, there are quite a few people. They may not want you to succeed. Hence, they are ready to misguide you anytime. You should not fall in the trap of those people and the best way to avoid is through career guidance from right person.

Beat the Competition More Easily

You do have friends and all are aspiring for same career that you want to be. Could you imagine the competition when so many others are competing? How is it possible that you can easily beat the competition? Is there a way out? Yes the best way to beat this competition is to consult a career counsellor for right guidance. A counsellor knows everything about the present state of affairs regarding a particular career option. If you are not consulting the right person for your career then you might go haywire. Hence to avoid confusion and deception go for career guidance.

BEST CARRER IN INDIA OR ABROAD

There are more other complex issues related to choosing a career. We will touch some of those pressing issues. One of them is whether you want to pursue your career in India or abroad. If the option is in India then it is OK. But if you want to go outside the country then you have to know the future prospect of the career option you have chosen. Whether in that particular country, future is good or it may not work well. So, the best way to find a solution is through career guidance. The Person could tell whether for a particular career you should stay in India or go abroad. Do not consult from friends or anyone else; always go for a professional advice.

Organize Finances for Further Education Expenditure

Today affording education has become so difficult and for many it is out of their means. However, if you get right career guidance then you can choose best colleges and courses at very affordable price.

If you do not have any idea about the right courses or colleges then you might have to pay more. Hence, the best way to avoid this is taking right guidance because they could give you the most appropriate information.

You could also plan for your child's future that how much you have to spend in next 5 to 10 years. You could take loan and start funding for the education of your child.

Hence career guidance could save you from all the financial woes.

CONCLUSION

Finally, I will conclude by saying never underestimate the importance of career guidance. In our, country where everyone only wants a Sarkari Naukri, they hardly give any importance to other career options. You should open your mind regarding your career. Career guidance could make things a lot easier for you

Although in India the culture of career guidance is limited to big cities but you need to defy this culture and make best use of career guidance.

by
N.pradeepthi
16A81A0438

LIMERICKS

*Oh the thoughts They snuck
under my skin,*

*Eating away my
bones, Disintegrating my body,*

Piece by piece, inch by inch,

*Leaving my bloodlike turbulent
water,*

Flowing all over this blank page.

Oh the words

They turned my blood blue,

Drawing in it, to be linked,

Giving themselves a visual form,

Now leaving only my soul,

Leaving it to wander,

*In the spaces between these
verses.*

They still feel incomplete,

So they sucked my soul,

Now the metaphors,

Fill in the blank spaces,

Now, I'm whole in one piece

*On this paper that once was a
blanksheet.*

Isn't this the reason why they say

*Poetry is the body and soul of the
poet!*

FROM BOOKS TO CANVAS



kanksha
18A81A04F5

“The Pessimist Sees Difficulty In Every Opportunity. The Optimist Sees Opportunity In Every Difficulty.” – Winston Churchill



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kanksha

JOKES

Girl: You would be a good dancer except for two things.

Boy: What are the two things?

Girl: Your feet.

A man goes to the doctor and says, "Doctor, wherever I touch, it hurts."

The doctor asks, "What do you mean?"

The man says, "When I touch my shoulder, it really hurts. If I touch my knee - OUCH! When I touch my forehead, it really, really hurts."

The doctor says, "I know what's wrong with you - you've broken your finger!"

Teacher: Shamu, go to the map and find North America.

Shamu: Here it is!

Teacher: Correct. Now, Ramu, who discovered America?

Ramu: Shamu!

Teacher: Daddy, have you ever been to Egypt?

Father: No. Why do you ask that?

Teacher: Well, where did you get THIS mummy then?

PROJECT IDEA

Major Causes of High Temperatures on PCBs

Excess heat on printed circuit boards (PCBs) can result from poor design, incorrect parts and material selection, wrong component placement, and inefficient heat management.

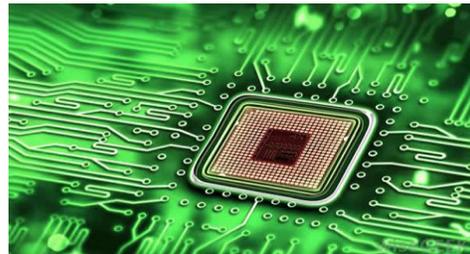
The resulting high temperatures negatively affect functionality, components, and the board itself. The effect of elevated temperatures may be negligible in many applications, but in high-performance designs, it can be significant.

Thus, proper heat management is an important aspect of electrical engineering. An integrated approach to heat management involves paying attention to everything right from the component level, all the way to the physical board system and operating environment.

The increasing component density in today's electronic circuits can contribute to thermal problems. Also, PCB design flaws and ineffective cooling techniques can lead to unacceptably high temperatures.

Incorrect Component Placement

Some high-power devices require locations with proper airflow, either natural or forced, to transfer the heat away. As such, these should be placed at locations where there are vents or good airflow.



Without proper airflow and heat removal, the PCB will keep most of the heat and this will cause a gradual temperature increase, leading to poor circuit performance or damage. Also, keep in mind that sensitive components will experience thermal stress if they are placed near those emitting large amounts of heat.



Environmental and External Thermal Factors

Failure to consider the conditions in the target environment during design may expose the components to thermal stresses when the PCB is used in areas with extreme temperatures.

Manufacturers provide specifications that are applicable within a certain temperature range. For example, resistance values are usually quoted for a temperature of 20°C. It's important to keep in mind that components such as resistors, capacitors, and semiconductors have parameters that change with temperature.

Wrong Component and Material Selection

Failure to follow recommended guidelines during component selection may lead to thermal issues. It's important to study the datasheet and consider all relevant information related to power dissipation, thermal resistance, temperature limits, and cooling techniques.

Also, make sure that you are choosing a power rating that is appropriate for the application. An easy mistake to make is repeatedly using the same resistor (perhaps because the corresponding component is already in your CAD library), despite the fact that certain applications might require a higher power rating. Do a quick power calculation for your resistors and ensure that the rating is significantly higher than the maximum expected dissipation.

Another important issue is the selection of the PCB dielectric material. The printed circuit board itself must be able to endure worst-case thermal conditions.

Poor PCB Design and Manufacturing

Poor layout and manufacturing processes can contribute to PCB thermal problems. Improper soldering may impede heat dissipation, and inadequate trace width or copper area can lead to problematic temperature increases.

To prevent thermal problems, designers must reduce heat dissipation and use additional removal techniques when natural cooling is insufficient. Producing a thermally optimized design requires paying attention to component specifications, PCB layout, PCB dielectric material, and environmental conditions.

RIDDLES

Q: Which letter of the alphabet has the most water?

A: The C.

Q: What goes around and around the wood, but never goes into the wood?

A: The bark on a tree.

Q: What can run but never walks, has a mouth but never talks, has a head but never weeps, has a bed but never sleeps?

A: A river.

Q: What is so delicate that saying its name breaks it?

A: Silence.

Q: What starts with the letter T, is filled with T and ends in T?

A: A teapot.

Q: What belongs to you but other people use it more than you?

A: Your name.

Q: I scream, you scream, we all scream. For what?

A: Ice cream!

HEALTH

Want to Keep Your Heart and Brain Young? Do This



Here's a startling fact: About 3 in 4 American adults don't get the recommended amount of physical activity, according to the Centers for Disease Control and Prevention.

Even more sobering: Many adults don't get any activity *at all*, aside from what they need to make it through the day. And as we age, more and more of us stop moving. Almost 23 percent of adults between age 18 and 44 are sedentary. For those 65 and older, it's around 32 percent.

While you likely know that long-term inactivity weakens your bones and muscles, you may not realize that it can damage your heart and brain, too. This, in turn, raises your odds of dementia and heart disease, among other conditions, and can lead to early death.

But research suggests that getting exercise can help keep these organs healthy and delay or prevent their decline. And if you regularly work up a sweat over a number of years? All the better.

"You really need to think about ways to keep moving," says **Kevin Bohnsack, MD**, a family medicine physician at **Saint Joseph Mercy Health System** in Ann Arbor, Michigan. "Everything that increases your overall activity can ward off that sedentary lifestyle," he adds—along with the cardiac and cognitive problems that can come with it.

How exercise benefits the heart

As you progress through middle age, your heart gradually begins to weaken. Its walls get thicker and less flexible, and your arteries become stiffer. This raises your risk for **high blood pressure** (hypertension) and other heart problems, including heart attack and heart failure. And if you're sedentary, that risk goes up even more.

When you exercise, your heart beats faster, increasing blood flow and supplying your body with necessary oxygen. The more you work out, the stronger your heart gets and the more elastic your blood vessels become. This helps you maintain a lower blood pressure and decreases your chances of developing many cardiovascular problems.

It's aerobic exercise—also called cardio—that really does the trick. Research suggests that consistent, long-term moderate or vigorous cardio training may be most helpful, though any **physical activity** promotes good heart health. “It can be anything from running to biking to rowing,” says Dr. Bohnsack. “Anything that builds up that heart rate.”

Getting in shape benefits your heart in other ways, too, by helping neutralize risk factors linked to heart disease. Exercise is associated with:

- A reduction in inflammation
- An increase in HDL (“good” cholesterol) and decrease in LDL (“bad” cholesterol)
- Maintaining a healthy weight and staving off obesity

And though more studies are needed, research increasingly shows that exercise can boost your heart health no matter your age. For example, for one small study published in March 2018 in the journal *Circulation*, 28 middle-aged men completed two years of high-intensity exercise training. Compared to a control group, scientists found the exercise reduced their cardiac stiffness and increased their bodies' capacity for oxygen use—both of which may slash the risk for heart failure.

For another study published in the August 2018 issue of *Journal of the American Heart Association*, researchers gave heartrate and movement sensors to 1,600 British volunteers between the ages of 60 and 64. After five days, they found that more active people had fewer indicators of heart disease in their blood. Not too shabby, boomers.

How exercise benefits the brain

What's good for your heart is generally good for your mind—and research shows breaking a sweat on a regular basis can boost brain health in several ways.

First, exercise is tied to improved cognition, which includes better memory, attention and executive function—things like controlling emotions and completing tasks. It can enhance the speed with which you process and react to information, too, along with your capacity to draw from your past knowledge and experiences.

Getting physical is also linked to slower age-related cognitive decline, where we gradually lose our thinking, focus and memory skills. “In other words,” says Bohnsack, “if you like where you are, it's a good idea to continue to exercise because that may at least help you retain your current cognitive function.”

And though the jury is still out on whether it improves symptoms, exercise may help **prevent or delay dementia**, including Alzheimer's disease. For example, one 2017 review in *The Journals of Gerontology: Biological Sciences* found that activity was associated with a lower risk of Alzheimer's down the line. The link was strongest for people who purposely exercised in their spare time, rather than those who had physically active jobs. This suggests mental benefits may depend on your chosen activity, in addition to the time you put into it.

How does exercise do all this? Scientists aren't completely sure. It's thought that working out improves blood flow and oxygen delivery to the brain, helping it function better. Some research indicates it prevents shrinkage of the hippocampus—the part of the brain crucial for learning and remembering things. Experts also believe it stimulates chemical activity in the brain that could contribute to better cognition.

Finally, exercise may help lower your chances of developing other conditions connected to dementia, including cardiovascular disease.

When can you start?

No matter our age, pretty much all of us can gain from exercise. “There is evidence to suggest that doing more vigorous exercise earlier in life is more beneficial,” says Bohnsack, “but it's never too late to start because everyone benefits from doing some sort of movement or physical activity.”

In addition to its rewards for the heart and brain, working out:

- Boosts your mood and energy
- Helps prevent injuries
- Lowers your risk of other diseases associated with aging, like arthritis
- Helps you remain independent
-

Government exercise guidelines recommend that adults shoot for 150 minutes or more of moderate-intensity or 75 minutes of vigorous-intensity aerobic activity weekly. Ideally, it should be spread across several days. Cardio activities like walking, biking, swimming, bowling, gardening and dancing are good options for older adults.

Your regimen should also incorporate some strength training, along with balance and flexibility moves. (Think yoga or **tai chi**.) They can help keep you mobile and reduce injuries—especially from falls, which are often catastrophic for older people's health.

Ease into your routine

Of course, older adults should always speak with a healthcare professional (HCP) before beginning any new regimen, especially if you have a chronic condition, like heart disease. Your HCP can help you decide on a safe, effective routine attuned to your fitness level.

And remember: Even if it's just a short walk, any exertion is better than none. “Taking steps during the day to do physical activities or movement can be just as beneficial as if you joined a gym,” says Bohnsack. To start, he suggests simple moves like doing squats at work or parking farther away from your office so you can log a few extra steps.

FACULTY ARTICLE

Tips for Getting Good Scores in Gate Exams

GATE – an acronym for the Graduate Admission Test in Engineering is an all India level entrance examination for aspirants who want to pursue Masters/Direct PhD in India or elsewhere in the world. Every year, lakhs of candidates across the country appear in GATE exam – thus making it one of the toughest entrance tests in the country

- First and foremost, always remember that you cannot possibly secure 100 marks in GATE! In fact, 90 is often a Herculean task considering that toppers usually answer somewhere around 85-90 marks. We do understand that how much you and other candidates will be attempting eventually depends upon the difficulty of the paper – but the general trend is what we have just projected.
- Never ever omit any subject. One thing we have noticed throughout these years is that most students usually tend to omit a subject based on the weight age. The problem with such a strategy is that the subject(s) that you omit could obviously have some really simple questions while the ones you focus on may throw at you a bunch of really complicated questions.
- While self-study of course works for the devoted candidates, it is always advisable that you join a [coaching institute](#). Just remember that to secure a top rank in GATE, you must have a strong foundation in almost all the subjects. That, needless to say, can be a daunting task sometimes if you don't receive sufficient help from a good faculty.
- Always remember that Maths will eventually make a massive difference in your scores. Please note that approximately 30 marks, including of course the aptitude, will be really easy to score.
- Solve a lot of GATE papers from the yester-years. Also check [GATE Exam Question papers](#)
- PPTs won't always provide you with sufficient knowledge. Learn the core concepts of all subjects only from the text books prescribed for your undergraduate courses.
- Give more time to topics which you feel are tough and take help of 3-4 books to understand that topic. You can also have a look on last year question paper pattern and decide accordingly how much time you should devote for each topic.
- Speed and accuracy are the most important things when you are appearing in any competitive exam. So, when you are appearing for GATE exam you should definitely work on your speed of solving questions with accuracy.

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