

CRUX

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Cognition folder—miles to go!



"It is amazing how much you can accomplish when it doesn't matter who gets the credit." Yes, we are talking about the team effort that has been put into the creation of our very own MSC INTEGRATED brochure.

It feels great to know that we have designed a brochure which focuses on the goldmine of opportunities our course offers, along with any essential information that a worthy candidate requires to know about this course.

But even more exciting and a day to cherish is when finally the brochure was released by our honourable Vice Chancellor, PROF DR P MANNAR JAWAHAR, our respectable registrar, DR S SHANMUGAVEL and our beloved dean, DR M SEKAR. Even amidst their busy schedule they delighted us with their valuable presence and did us the honour of releasing the brochure. The brochure was greatly appreciated by them. They complimented our Head of the department, DR P VIJAYARAJU for his encouragement and support and the students for their effort and hard work in

giving life to the brochure. They wished that this informative brochure, showcasing a brief idea about the course will bring out more talents in the years to come. Further, they encouraged the other departments to come out with more such endeavours.

As far as the brochure, it contains a very attractive front cover and provides information about the college, the department, the M.Sc (Integrated) programme, the course structure and describes the various facilities available in our department, like the department library, computing facility and so on...including details regarding the Math Computing Society. Moreover, information about the companies where the students have done their internships has also been outlined. Adding much colour to the brochure is the galore of companies that recruit us. It also has an alumni feedback page where the alumni have shared their experience when it comes to internships and placements. We hope things will turn much better after releasing such an informative brochure. Way to go guys!!!

From The Editor's Desk...

"What has been happening in Math Computing Society (MCS)?" "Are there going to be more magazines released by them or not?" Those questions and variations thereof, are what we have been hearing for the past two months.

And it is entirely understandable. It has been a long time since the first issue was released and a lot has happened since then. We are not talking about a major revolution here but just a few memorable things that can be added as feathers to our cap. First, it is necessary to inform you all about some changes that have been made to MCS.

Two new teams – the Design team and the Tech team, have been added. This is definitely a useful addition. Because of the belief we have in our team, we took it upon ourselves to create an attractive and at the same

time an informative brochure about our course. This not only contains the details about the course but also highlights the kaleidoscope of opportunities offered by this course.

In addition, a few pages in the brochure are fully dedicated to the alumni. This information brochure is set to be published in the Anna University website in the midst of this year's counseling. We believe, this will definitely help us in recruiting better quality students and taking our department up another level like we have always dreamt of.

Another important event that took place in the last few months, was the Adobe Flex workshop jointly organized by MCS and RIA-RUI society which saw the team of experts such as Flex developers, designers and evangelists of RIA providing a hands-on experience to our students which enabled them to understand the semantics behind Flex Applications and in turn inspired them to create their own applications. This workshop had such an enthusiastic response which has led to MCS scheduling and organizing more such events in the

upcoming months.

We also take this opportunity to tell all the readers about 'SPOJ - An online programming contest', a place where students will be allowed to showcase their programming skills. Information regarding SPOJ has been put up in MCS website to help anyone, wishing to take part in the contest.

"Be it the wondrous Workshops that incite sparks of passion, or the thought provoking Guest Lectures that set you thinking, the exigent events that push seeming barriers or, quite simply, a personal Eureka moment amidst the deluge of ideas all around - it is all about being there and making things happen. For the observers there's plenty to learn and for the doers there's even more to earn..."

This is the dream that we are trying to make a reality...

So, welcome to the second edition of Crux, the newsletter of Math Computing Society. We are back with a bang and we promise you that this issue will have its fair share of technical facts, creative articles and information about the goings and the In's & Out's in our department through MCS. It may not be everyone's complete cup of tea but we are sure that there will be a little sugar cube that will get your taste buds going!!!

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TIT-BITS

1. IBM builds a search engine aimed at the estimated fifth of the world's population that cannot read. Called the "Spoken Web," it is the result of an IBM research project attempting to re-create the features and functions of the text-based World Wide Web for people with low levels of literacy and technical skills.

2. The last decade expanded what we could do online, but the Web's basic programming couldn't keep up. It threatened to fracture the world's greatest innovation engine—until a small group of Web rivals joined forces to save it. HTML5, the next version of the markup language used to build Web pages, has attracted attention for its ability to show video inside a Web browser without using plug-ins, such as Adobe's Flash. But lesser-known features could ultimately have a much bigger impact on how users experience the Web.

File Convalescence – a Quick Mend

K.S.Saranya,
M.Sc (IT) 4th year

DELETE – It is the most frequently used button in our PC to wipe out many unwanted files and folders. As you all know these files are simply removed from your directory of files in the folder. Even though you can never see the file in the folder its contents exist 100% intact in Recycle Bin where you can reinstate the deleted files by just clicking on the **RESTORE** option.

But what if you delete a file accidentally by using Shift + Delete or use some other method to drain off the bin? Don't get agonized. The file is still not eliminated!!! File Recovery Software comes to our rescue. Although the space engaged by the file becomes available for reuse by other files, it doesn't get reclaimed straight away. The data it contained will stay on your hard drive for some time and may be convalesced using the software that knows what to look for. Windows tries to avoid reusing disk space that has recently been freed, to give file recovery software a better chance of working.

Many tools are available to help you regenerate the deleted files. There are software like WinUndelete, Uneraser etc., for Windows and Filesalvage, DataRescue3 for MAC Operating System. **Undelete** software understands the internals of the software used to store files on a disk and uses this knowledge to locate disk space that was occupied by a deleted file.

UNERASER:

Uneraser uses deep search method- Signature Search algorithm named 'power search' and sophisticated recovery algorithms to give you the best possible chance of recovering your

files. Signature Search algorithm allows detecting the location of supported types of files stored on badly damaged, repartitioned, formatted and inaccessible disks. Uneraser has powerful tools and DiskInternals thumbnail preview for all files which allows you to quickly identify the files you need to recover.

WINUNDELETE:

This is the leading undelete software in the present scenario. It can recover deleted files from the hard drive, flash drive, USB external device, digital camera card and more. This software has an inimitable and elite Smart Scan technology that completes those impossible recovery tasks that other software cannot touch. **Smart Scan** is a unique technology used for fast disk structure restoring. A physical and logical disk, disk region or disk image saved as a file can be scanned. Smart Scan can restore all the previous partitions if the scanned disk has some direct or indirect partitions data on a hard drive. Smart Scan quickly tracks down and refurbishes deleted files that other undelete software can never find. It allows you to interactively control and modify these data during scanning.

It is no more panic blue-pencilling the files of your ain. Winundelete wins over the hassle.

TECHTOON



5G - In The Offing

Is it time to say goodbye to the clunky desktop computer, or even the laptop and note pads? Many argue that it is! How long do you think it will be before our once humble cell phone is promoted to the rank of virtual personal assistant? Whereas it was once just a talking device, an amazing number of features and flexibility will likely give us a huge number of choices to help us lead our daily lives. The cutting-edge equipment will surely make the best use of these new delivery methods.

5G mobile phones represent considerable improvements to the already eye opening Apple iPhone or Google Android units, which are just unveiling

their own considerable opportunities. It seems that the status quo is only being established but, as this kind of technology never hangs around for any period of time the so called "5G" is likely to vanquish 3G really quickly. The 5G communi-



cation system will be based around extensive use of voice over Internet protocol, also known as VoIP. Data will be transferred at very high speeds and call quality will take a considerable step forward. The 5G mobile phone will surely be a very powerful miniature computer by itself. Due to the huge increase in

bandwidth available through voice over Internet protocol, transfer rates are going to be very quick and usability much improved. Flexibility will be at the forefront of the new 5G mobile phone generation. You will not have to worry about different calling rates and whether your service provider has to "talk" to another service provider just to get you through. All this nonsense will become a thing of the past through forward thinking new service providers. Think about the major emerging economies of India and China and you can imagine how many people will be communicating with cell phones within the next decade or so. How long will it be before we are in a position where technology has allowed us to instantly communicate with everyone else and to live our lives in the most highly efficient manner? People will scramble for a piece of this mobile revolution. No longer will the world be a small place when the 5G mobile revolution really gets cranked up.

Snap Inside Soma!!!

J.Mohanapriya
M.Sc (CS) 4th year

Just imagine if wireless devices are contained in swallowable capsules!! Stormed? Yes, after years of development, electronic pills are now fast approaching. One of the main challenges is to determine what is happening in the stomach and intestines. Doctors often use invasive methods such as catheters, endoscopic instruments or radioisotopes for collecting information about the digestive tract, to transmit information such as acidity, pressure and temperature levels or images of the oesophagus and intestine to your doctor's computer

for analysis. Electronic pills can be used to measure muscle contraction, ease of passage and other factors which unveils information unavailable in the past. This invention has allowed physicians to examine the inside of the patient's body by just getting the patient to eat a pill! When swallowed, the pill travels through a person's digestive system and transmits information to a receiver along the way. The pill takes pictures of the interior body along the way and is able to sense the acidity and pressure levels of the stomach. It is also able to time how long it takes for it to be digested and excreted (the pill would be excreted after a day or two). The pill allows to visualize new areas of the body not reached by the endoscope. Although this pill is great for taking a look into the digestive system, doctors have

dreamed for many years of having a self-propelling capsule that can travel anywhere throughout the interior of a person's body as instructed or programmed to do. This means that not only the digestive system will be explored but all areas of the body including the inside of organs too! This capsule has not yet been invented, but the rate at which our technology is improving now, it will be no time before scientists find a way to create it. These instruments will be able to provide enough information to diagnose diseases which is the beginning of finding a cure. Being able to look inside a body without opening it up is definitely something amazing and less dangerous. As technology becomes more and more advanced, we can only wait and see what new devices will come our way to deepen our understanding of the human body.

Senior Chatter



TIT-BITS

- **Preview Mobiles Applications & Games (.jar) :**

In PC preview mobiles applications and games (.jar). In PC before you load some games and applications in your mobile, you can preview them using the application Sjboy Emulator.

- **How To Reinstall Windows Without Losing Anything :**

This is better than doing a windows repair install from the cd because doing that can cause changes to settings and even make it so you can't get updates anymore from microsoft update site because of the 'silent install' they did a year or so ago

1.Start WindowsXP

2.Go to the location of your source files

3.Run WINNT32 /unattend

For example, D:\1386\winnt32 /unattend (copy & paste this command into the RUN box, then press ENTER) Your computer will do the rest.

Get to know about our college through the eyes of our alumni Mr.Mahesh Chayel of 2005 batch currently working in WIPRO technologies.

Acquaint us about your life at CEG.

My life at CEG was as good as it can get. This is a time when you come out of the cushion of your school .I had my share of fun at CEG. Made friends for a life time and got to know the most awesome Professors. Being the first batch, a lot was expected from my set. It was quite unorganized sometimes but that only contributed to the creativity and zeal to do better things.

CEG being a plethora of wherewithal, how healthy did you avail yourself of it?

There is no dearth of resources if one wants to do something in CEG and most of the students know this even before coming to the campus. I also knew this and had it fixed in my mind, to do something worthwhile and improve the different facets of my personality. That does not mean only studying but also interaction with a lot of brilliant individuals and having fun. We have an awesome library with collection of books to cover nearly every topic you can be interested in. RCC is another place which played a great role in my life - CEG has many hangouts, but this is the best. If you are interested in experimental projects or if you are in need of resources, then RCC is the place for you!

For a sandwich curriculum like Integrated M.Sc., (to compete with the engineering stream) how imperative is doing non-academic projects and internships are?

Actually we need not compete with the engineering stream, because of the sheer strength of our curriculum. Our course provides indepth knowledge of many topics which are not covered in BE/BTech syllabus. Our internships add to our strength by giving practical experience in the corporate world. What

we lack sometimes is the enthusiasm and that can only be compensated by involving in activities which are not confined to your curriculum. They bring out the best in you and you start understanding which field is best suited for you and you shape your career around this .

What is your perspective about academic part of your life?

I was sure of one thing when I started, that you should be able to balance academics with the rest! I did not set a benchmark for myself, only that I need to be good at whatever I am doing. So, I did well at academics but made sure that I never missed out of any extra-curricular activities because of it.

Taking up higher studies or getting into job. Of the two, which do you think is constructive for a student?

It depends on what kind of job you have in hand or what kind of college admission you have in hand or what your interest is. If you have admission to a top-tier Institute then obviously that would make better sense, but leaving a good job for a mid-tier Institute doesn't go well.

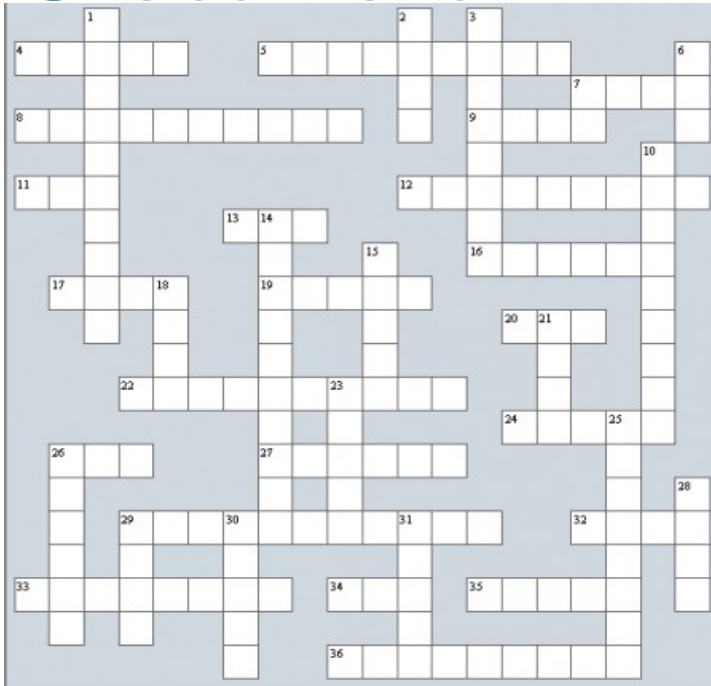
How fair did you concentrate preparing for both higher studies as well as the academic prospectus?

My focus was on preparation for higher studies but then I knew that the same kind of preparation is required from the placements point of view as well. And that actually helped as I was always shortlisted amongst the top whenever there was any written test. So, it has dual advantages to prepare for both things at once.

Winding down, provide us with a few words of wisdom (your direction and assistance for the future students).

There are so many things one wants to do in life, get your priorities right. Believe in yourself and then just do it. I am always interested in helping out the juniors, so feel free to contact me at mahesh.chayel@gmail.com

Crossword



Across

4. Glimpse of light
5. Physician on cal
7. All hail the king
8. The God of structures
9. Quick and collective
11. Tabling the corpus, in short
12. Sounds like livestock gathered to draw
13. Suitcase for any problem
16. Flight's delayed because of IT
17. Peg it with a jay.
19. The fellow sees to it

Math Puzzles

H.Padmasree
M.Sc (CS) 4th year

1. How many times a day do the hour and minute hands on a clock line up exactly with each other?
2. A spoonful is removed from a cup of wine and placed in a cup of water and stirred well. Then a spoonful is removed from the resulting solution and put back into the cup of wine. Is there more water in the wine or vice versa?
3. A race car is going around a track that is a square, one mile on a side. If it goes 60 mph around the first two sides and 30 mph on the the third side, how fast must it go to average 60 mph all the way around?
4. Four men – Aaron, Barry, Colin and David and four women- Marie, Norma, Olive, and pearl attended a wedding.

One of the four men married one of the four women.

If Aaron did not get married and if Marie did not get married, then Olive got married.

If Aaron did not get married and if Norma did not get married, then Barry got married.

If Barry did not get married and if Olive did not get married, then Colin got married.

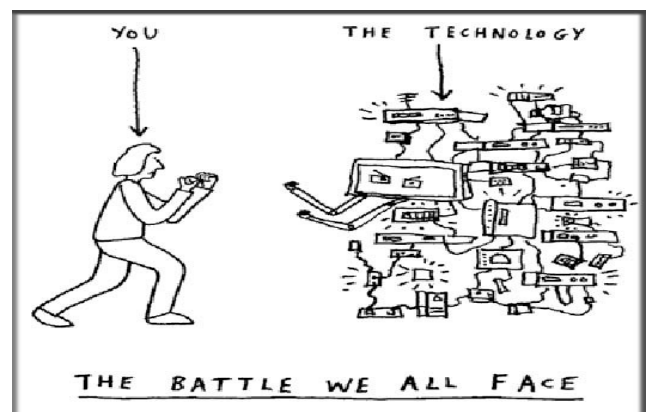
If Colin did not get married and if Norma did not get married, then Marie got Married.

Who got married?

20. What are chums for if not to aid
22. Homer did not need one
24. Smoke signals in the battle
26. Your own tags.
27. Make sense of babel
29. Spinners of fantasies
32. This was what was there in the beginning
33. Wander around with a camera in Asia
34. Tumbling down in style
35. Glue it from elsewhere
36. Picture studio.

Down:

1. Coffee and cool mouseovers
2. Lay out your X-pages.
3. The spider weaves
6. Unvaryingly find a resource
7. Customer touchpoint, in short
10. Enchant and educate
14. Doc gets moving.
15. The town red?
18. Of antelopes handling pictures
21. Mark them up
23. The very picture
25. Sounds like a helpful alien
26. Heavy duty rock
28. The series, from start to finish
29. Not about Horn or Lamarck.
30. Water are old hats
31. Of visionary diagrams.



Our Chums Out Of The Blue

Anika Kalia
M.Sc (IT) 4th year

There are times when we need some special people to come in our life and make the most of it. We call such special people our dear friends without whom our existence gyrates incomplete. Friends, not costing any wealth, make you smile even in the darkest of times. But there are occasions when we meet unexpected friends in a totally unexpected way. Such friends make it very difficult to worry about almost anything but just be indulged in their friendship. The sixth semester brought into our lives such startling buddies. At first we all were disappointed to be given a classroom that was in a less known crook of our department and thus were afraid to feel lonely. One special day made us think ourselves lucky to get that classroom. As usual our teacher that day was trying to teach some new and never heard of concepts but most of us couldn't help but doze off while listening. Abruptly, I felt something pushing at my clothes from under the bench and when I looked down, there was nothing. I thought I was just imagining things. Overhearing a strident noise, all of us turned to see that three new members got added to our class and after which our attention was only on them. Since that day they used to come each day and roam around our class making noises running either after or away from everyone. Even during an ongoing class they ran around the entire classroom and were so active that we all had to make friends with them. Expecting us to help them in a unique way, being friends, they came to our class without bringing their lunch and used to become so happy when we shared our lunch with them that we couldn't help but wait for them every day to come

and share our lunch so that we may spend more time with our new and wonderful friends. They used to jump around from benches to benches darting quick glances at everyone. Within a few days we made a special bond with them that we had to name them as Chickey, Blackey and Brownie. In half a shake, you may think that these are strange names for our three special friends but they were none other than the cute little kittens that were cited according to their fur color. They proved themselves as our best friends by giving us company in taking a short nap during the lecture. On days when they weren't around our classroom we terribly missed them and were always seeking for an opportunity to meet them. With each passing day, our bond with them became stronger and the photographs that we took with them became as memorable as with our real friends. In a kind like this, we met our friends out of the blue which led us to believe that humans alone do not take the privilege of being special friends but even animals can remove our loneliness.

TIT-BITS

- 1 The technology contained in a single game boy unit in 2000 exceeds all the computing power that was used to put the first man on moon in 1969.
- 2 Remember the data interface from the movie Minority Report? Well, it's real, John Underkoffler invented it -- as a point-and-touch interface called g-speak -- and it's about to change the way we interact with data.
- 3 The creator of the web-comic, "XKCD" is Randall Munroe, a former NASA roboticist and programmer.

CROSS WORD ANSWERS

DOWN

1.Javascript
2.Fosi
3.Webworks
6.URL
7.User
10.Captive
14.Documentum
15.Paint
18.Gimp
21.HTML
23.Image
25.Robohelp
26.Xmetal
28.DDLC
29.Dita
30.Agile
31.Visio

ACROSS:

4.Flash
5.Doctohelp
7.User
8.Frameworke
9.Wiki
11.TOC
12.Coreldraw
13.PDF
16.Snagit
17.JPEG
19.C2MAN
20.CHM
22.Epiceditor
24.Flare
26.XML
27.Trados
29.Dreamweaver
32.Word
33.Camtasia
34.CSS
35.Paste
36.Photoshop.

MATH PUZZLE ANSWER:

1.22 times per day.
2.There are equal amounts in each
3.it cannot average 60 mph all the way around.
4.Barry and Marie got married.

ADOBE FLEX at Campus

MCS's 1st ever workshop was an instant success amongst the students of our college!! It will be fairly unfair if we don't give you all a glimpse of what the workshop was all about. The workshop was worth all the applause. It was quite an awesome experience for the students of our college, it offered a chance to every individual in getting to know an innovative technology.



The workshop on Adobe Flex began with a brief presentation about 'Flash Builder' and a demonstration of its application, thereby showcasing the various

services of the same. It was definitely a learning and thought kindling experience for all those who were present at the venue of the workshop.

This was soon followed by a hands-on session where the

participants were asked to create their own simple application.

Since there was enough number of experts to help all the participants, most of them were able to develop an application successfully. Training people were so keen in keeping the participants informed about the key points in the technology. Getting an application run bug free has always been a delight for any computer engineer and that was indeed felt.

The workshop turned out to be a place where knowledge and technology held their hands together, thus energizing the young minds like us. Hoping that the workshop cast an astounding spell on everyone who were present, we promise to get things of this kind, even better. The enthusiastic turnout has indeed been an incentive for us and we hope to conduct more such events for the en masse in the near future.

Alumni Reunion

College is a place where our lives get rejuvenated with wholesome memories. And doubtlessly, Anna University is an awesome compendium of retentivities indeed! Our department celebrated its **Alumni Day 2010** on December 26th 2010, a day that will always be etched in our hearts for a long time. The Alumni Day is an occasion where the alumni gather to reminisce, to network, to get updated, to get rejuvenate and to reconnect.

This year's Alumni Day witnessed the confluence of batches 2005 and 2006. A few of the at-



tendees went on to the stage and reminisced about their college days and the fun they had together. Professors Dr. Ekambavanan and Dr. Ganesan spoke about the course and the transition it has underwent since it was introduced and praised the seniors for their contribution towards its path to success.

People kept bantering with each other, recollecting the past

fun and group photos were the norm. It was a delight to witness the joy in everyone's face while sharing the best moments of his/her college life. Many talked about the journey each student undertakes from internships to placements in this course. They talked about the importance of internships and how it allows the students to have a glimpse of the real corporate world and trains them for the future. Many informal events were also conducted to bring out the lighter side of every one. The day is still fresh in our hearts and will definitely remain to be so. Each snapshot made by our eyes are memories that still linger in our hearts.

**We bid
Adieu...
for now !!!**