

## CSIT Offered Free Coaching to Aspirants

CSIT is one of those rare institutes which offer its academic services free of cost to the aspirants of Vyapam's Examination for Professional studies. The College arranged best teachers from the state to teach the rural students. The college organized coaching camps for the subject Physics, Chemistry, Maths, Biology at far off towns & Villages Gunderdehi, Arjunda, Sikosa, Deori of Balod district, and Chowki and Dongargaon of Rajnandgaon district. The camps in villages of Durg district were organized from 5 April to 15 April 2018.



The camps at Chowki and Dongargaon villages of Rajnandgaon District were organized from 16 to 30 April.

In the same fashion, another camp was organized at the college campus from 5 April to 30 April. Mostly urban students participated in this camp to study. Experienced teachers & professors were hired to teach. Around 170 students from rural areas and 100 students from urban area participated in these camps.



**Quote of Issue :**  
**“Success is walking from failure to failure with no loss of enthusiasm.”**

- Winston Churchill

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# Sancharika

Newsletter of Chhatrapati Shivaji Institute of Technology, Durg  
 (NBA Accredited College)

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## TREASURE HUNT @ CSIT

Association of Computer Engineers organized an event TREASURE HUNT 18 on 23 March, 2018 at Basket Ball Ground. The motive of the game was to gauge exploring ability, awareness and team building capability of the students, in addition to fun.

The event proceeded with Saraswati Vandana and ceremonial lamp lightening by Chairman Mr. Ajay Prakash Verma (Chairman), Mr. Rajeev Nair (CRM), Mr. Rajesh Verma (Registrar), Mr. Prashant Richhariya (HOD, CSE) and other guests. The event proceeded after the address of the Chairman.



Ms. Monika Jain, Ms. Shruti Nair, Mr. Rupesh, Mr. Athul emerged as the winners of the event. Professors of the Computer Science Faculty- Mr Kranti Jain, Mr Keshav Kori, Mr Saransh Shirke, Mr Dheeraj Ghaghre, Mrs. Nidhi Sindhu, Mrs Aparna Soni distributed the prizes to the winners. Mrs. Shikha Agarwal mam & Ms. Purna Verma (CSE IV Semester) anchored the event.

## MAKE YOUR MOVE'18

One of the most exciting event of CSIT, Make Your Move, left mesmerizing memories in everybody's mind. 'Make Your Move' is a solo and group dance competition organized by The Mechanical Engineering Association [MEA]- the students' club of Mechanical Engg. Department. This year too 'Make your Move' was organized for three days. The competition started on 7 March with the audition round and concluded on 9 March with fabulous dance performance by the students of CSIT.



MYM'18 commenced with audition round on 7 March 2018. This year's registrations were more in solo category. The group performance too showcased the dancing talents of CSITians, the audition judges selected the performers for the performing round that took place on 8 March 2018. Scores of solo and group dancers presented their dances at the basket-ball ground on this day. The dances were so thrilling that they kept the audience bound till late evening. The final round of the competition saw the thrilling dance numbers.

The finale was inaugurated by Director Dr. Anurag Verma in the presence of dignitaries. The evening witnessed presence of many students, alumni and visitors from town. The organizers also arranged some guest performances. The Nepali duet dance number by two kids earned a wide round of applaud. The competition continued till late evening with hundreds of visitors present to make it a grand finale.

## CSIT Organized National Conference AICON' 18

The annual mega academic conference of CSIT AICON-18 received a huge response from academicians, scholars and industrialists. This two-day long Conference was inaugurated on 20<sup>th</sup> April 2018 by Dr. Manjeet Singh Manna, Director AICTE. Er. Ajay Prakash Verma (Chairman, CSIT) presided the inaugural ceremony. Dr. Anurag Verma Shared the dias with these eminent guests representing the CSIT Family.

In his inaugural speech Dr. Manna said, "Conference are a must for Engineering Colleges, professors & students because the stream of knowledge the innovative ideas flows just not in class rooms but in conferences & discussions." Dr. Manna appreciated CSIT's efforts, infrastructure and lush green environment by saying, "I have visited many colleges but when one enters CSIT, the campus automatically instills positivity and proves encouraging for studies."

Dr. Manna also delivered a key note speech. His keynote speech focused on contemporary educational scenario, social issues and SWAYAM – the online education portal of the Government of India. It must be stated that Dr. Manna has been awarded by the president of India for his initiatives on SWAYAM.

In his keynote speech Dr. Manna said, "SWAYAM is the most notable incident in the history of education for it aims to bring back the glory of self-learning without any bondages." He further said, "In the contemporary world, ethics and maintenance of social fiber is a big challenge. Many disruptions have seeped in due to external and technical Influences. These challenges can be beaten by teaching fraternity and parents." Dr. Manna's keynote address was very interactive and interesting for the audience.

The Presiding Guest of the inaugural ceremony Er. Ajay Prakash Verma said, "The CSIT is an outcome of the dedicated efforts of Management, Faculties & the stake holders." Talking about conference he said, "India needs competent and effective engineers. As the technology is rapidly changing & the older ones are getting obsolete, the primary duty of educational institute is to keep their students abreast with latest knowledge. CSIT has this very essence in all its efforts."

Director Dr. Anurag Verma appraised the gathering about CSIT's achievements and future plans talking about the theme he said, "Disruptive technologies are those technologies which have become challenge for new technology." Total 158 research papers in ten different streams shall be presented at AICON'18.



**Chhatrapati Shivaji Institute of Technology, Durg.**

### VISION

To nurture world class intellectual growth by imparting High Quality, Futuristic Technical Education to emerge as one of the best technical institutes, to serve the mankind

### MISION

1. To create inspiring environment that will be most suited for Research, Creativity and Innovation.
2. Providing quality technical education at par with global standards.
3. To accomplish National Center of Excellence in collaboration with Industry.
4. To establish international alliances and collaborations with foreign universities to achieve global excellence.

## CSIT's NPTEL LOCAL CHAPTER EARNS ACCOLADES

Adhering to its principles of academic enhancement and quality output, CSIT has been initiating various steps. These innovative steps are largely appreciated by society and stake-holders. Way back in 2014 CSIT's Chairman Er. Ajay Prakash Verma initiated to establish a Local Chapter of NPTEL at CSIT for students and faculty members. The simple objective was to connect CSIT with top academia of IITs. Since then the NPTEL local chapter of the college has been achieving benchmarks of success.

The Chapter facilitates the students to register, access and undergo NPTEL exam related activities. CSIT is the only college, which has a dedicated room well equipped with computers and high speed internet connectivity, for listening to NPTEL lectures delivered online by professors of IITs.

The total registration for NPTEL courses is continuously increasing every year. Last year there were 1407 registrations but during last semester alone i.e. from Jan-June 2018 there were 914 registrations.

CSIT's NPTEL local chapter has been awarded for its outstanding services and performance in 2016 and 2017 by NPTEL at IIT, Kharagpur.

It is quite overwhelming to state that CSIT was ranked among top 100 college in the country. The CSIT was awarded three times; once in 2016 and twice in 2017. Further, till date CSIT has brought out eight nationwide top performers. These were felicitated by NPTEL by special certificates of appreciation. Three CSITians got Gold Certificates for scoring above 90% marks. Further, most of the candidates have been passing with 'Elite' certificates. Chairman Er. Ajay Prakash Verma and Director Dr. Anurag Verma congratulated the NPTEL Chapter and expressed happiness over the developments.



## Hitendra Awarded With Collectorship for a Day by Government

Almost every graduate dream to be a district collector, but only a few are able to make it. Government of Chhattisgarh's inspiring competition Youth Spark probs very rewarding for talented youths as it gave the bright ones an opportunity to act and work as district collector of an allocated district. It was very much rewarding competition and it was very much rewarding for Hitendra Sinha of CSIT, (currently in VII SEM, IT) who after being successful in all the rounds of Youth Spark earned an opportunity to be a day-long Collector of Naryanpur district of Bastar region. Hitendra got an opportunity to work with Collector Mr. Topeshwar Verma (IAS). On Hitendra's journey to be a collector for one day was covered in detail by various news papers specially Naiduniya. Hitendra travelled overnight to Naryanpur from Raipur in a bus, reached during the week hours, got refreshed at a pay and use facility. He walked for two kilometres to the Naryanpur Collectorate in excitement. He told that it was fantastic day to have look over the life and working with an IAS Officer. He accompanied the Collector in meeting and inspection. Hitendra said it was a great honour for getting such privilege and a rare opportunity. He recalled that though his mother forbade him to go to a Far off interior place like Naryanpur yet it was his sheer enthusiasm that kept him motivating. Chairman Er. Ajay Prakash Verma, Director Dr. Anurag Verma and all the members of CSIT Family congratulated Hitendra for his astounding success and achievement.



## Achievements of Faculties @ CSIT

\* **Mrs. Sudha Lodhi** (Asst. Prof., I.T. Department), participated in 16th TECHNOLOGIA 2018, conducted by CCET BHILAI on 08 March 2018.

\* **Mrs. Priya Shrivastava** (Asst. Prof., I.T. Department), participated in 16th TECHNOLOGIA 2018 at CCET, BHILAI on 08 March' 2018.

\* **Dr. V. K. Chandra** (Head, Deptt. of EEE) published a paper titled "Ball impact induced elasto-mechanoluminescence for impact sensor" in Journal of Luminescence (ELSEVIER), Volume 195, March' 2018.

\* **Dr. V.K. Chandra** (Head, Deptt. of EEE) published a paper titled "Modeling of Test Stimulus Generator and cordilogic for Testing of CT Sigma Delta Analog-to-Digital Converter" in CiiT International Journal of Fuzzy Systems Vol 10, Issue 4, April 2018.

\* **Mr. Shashikant Agrawal** published a paper titled "Brain Tumor MRI Image classification using Means Clustering" in International Journal of Advanced in Management, Technology and Engineering Sciences (IJAMTES), Volume 8, Issue 3, March 2018.

\* **Mr. Raj Kumar Sahu** published a paper titled "Design of Solar System by Implementing all optimized PID based MPPT Controller" in Trends in Renewable Energy, Volume 4, 2018.



CSITians at Asia-Pacific Robotics Competition, ROBOCON

With their dint of skill and enthusiasm a team of ten CSITians fabricated a robot to participate in ROBOCON, an Asia-Pacific Robotics Competition organized by Asia Broadcasting Union organized annually to encourage and promote robotics amongst the students at the college level. This year ROBOCON was organized by Doordarshan and was hosted at Pune by MIT Academy. It was organized from 1-4 March 2018.

The CSITians performed very well and among the 107 achieved 48<sup>th</sup> position. It was maiden attempt of CSITians in this competition. The students of Mechanical and Mechatronics department developed the robot with the encouragement of Chairman Er. Ajay Prakash Verma, and under the guidance of Director Dr. Anurag Verma & Prof. Rajesh Kumar [Head, Mex]. The members of this team were- Vishwadeep Paul (MEX), Rohit Kumar Birse (MEX), Ashish Patley (MEX), Atul Verma (MEX), Om Prakash Gupta (MEX), Sourabh Patel (MEX), Aman Agrawal (MEX), Aayush Singh Rajput (Mech), Abdul Adil Khan (Mech), Shubham Gaware (Mech).

# Equipping to Achieve Professional success

The word 'failure' is not liked by anyone in this world because it erases all the efforts; shatters dreams and affects repute. But 'failure' is not just a curse word for every failure narrates that the dimensions of effort put in were either insufficient or lacked something. Rather than lamenting over, it demands introspection and to reinvent. When someone fails, he/she blames everything including self and luck. But that should not be the case. Farzana Suri (victory coach) notes that on failing, "Reflect, not to blame yourself or the world, but to learn that the time has arrived to reinvent – to change. Not just a job but, perhaps an attitude or behavior that has been disempowering." The Professional Success depends on a variety of factors. These can be classified into two categories-Physical and psychological. Physical factors are related to surrounding and efforts, while psychological ones are related to mentality. Physical factors include team, qualification, facilities, knowledge, skill, caliber, capacity, place, competitor, finance, physical conditions. Psychological factors include all the positive traits of personality-like dedication, commitment, perseverance.

One needs to be well equipped with vision and the prerequisites for professional success. First of all set a vision to achieve the goal. Thinking over the requirements to achieve is the second step. See what is required, how can you get them. Then set a time line. Many of us fail because there is no time line. 'Working' and 'working a time frame' are two different notions. Achievement in a time frame is a major morale booster. It instills just not confidence but also brings sense of achievement. Now when the plot is set, use the resources you have thought of in the second step. Friends and technology are the best resources. Whenever you are in a fix, do remember to consult your friends/team. They are the best assets. A team is just not a group of people but it is spectrum of ideas and guts that give you upper edge. Many a time friends / team work as pressure reducers, for they can share the task or can suggest you the easiest way possible. So go ahead to work with time without hesitation.

Create a positive working environment around you and "keep the ball rolling" i.e. just go on working. You need to surround yourself with those people who motivate, contribute and appreciate. Success and perseverance largely depends on who are with i.e. the people you are surrounded with. Frazana writes that "Who are you spending your time with, most? If you are around people that always BMW – bitch, whine and moan or gossip, you are likely to morph into a 'crap magnet' attracting crap into your life. Surround yourself with people who force you to level up – the highly motivated and successful people. They will compel you to strive harder and even guide you to it." In mean time when you feel that you have inched towards the goal, reward yourself. Celebrate. Feel that you have inched towards your Goal, your dream. This shall reenergize you and your team and make you feel the achievability of the goal. Simple working makes you feel mental fatigue and diverts you from working. After you feel reenergize, start moving ahead again. This time you will find yourself more energetic and zealous.

This issue of Sancharika covers AiCon'18, the annual national conference, cultural programs like- Make Your Move, Riwaaz; which are signature events of the college. In addition there are glimpses of farewell parties. April is a month of adieu. It's time for our VIII semester students have to start their voyage for their life. We wish them a good luck and happy times ahead.

✍️ **Dr. Chandra Shekhar Sharma**  
[Associate Prof. & Head, English]  
Chief Editor  
Sancharika

## QUOTABLE QUOTES:

- You are never too old to set another goal or dream a new dream. – **C.S. Lewis.**
- The youth is the hope of our future. – **Jose Rizal**
- Procrastination makes easy things hard, hard things harder. – **Mason Cooley**
- No man has a good enough memory to be a successful liar. – **Abraham Lincoln**
- You can always count on Americans to do the right thing -after they've tried everything else. -**Winston Churchill**
- The Purpose of art is washing the dust of daily life off our souls. – **Pablo Picasso**
- A mind is a terrible thing to waste. – **United Negro College Fund**
- Poverty is the worst form of violence. – **Mahatma Gandhi**
- Weather is a great metaphor for life- sometimes it's good, sometimes it's bad, and there's nothing much you can do about it. What you can do is carry an umbrella or choose to dance in the rain. – **Terri Guillemets**
- Start with what is right rather than what is acceptable. – **Franz Kafka**
- Heav'n has no rage, like love to hatred turn'd nor hell a fury, like a woman scorn'd. – **William Congreve**
- Some rise by sin, and some by virtue fall. - **William Shakespeare**

# Knowledge Leaf

## VOCABULARY CORNER

### Idioms

- **Piece of cake:** Something that is easy to understand or do.
- **Come hell or high water:** Courage to overcome the barriers in the path/work.
- **Give cold shoulder:** Ignore.
- **The best of both worlds:** The benefits of widely differing situations, enjoyed at the same time.
- **Icing on the cake:** Additional benefits or advantage.
- **Feeling a bit under the weather:** Feeling ill.
- **Hear it on grapevine:** Unauthentic news heard from someone.
- **Eat humble pie:** To apologize humbly.

### Vocabulary

- **Putative:** assumed to exist or to have existed.
- **Pulchritude :** beauty.
- **Obfuscate:** obscure, unclear, or unintelligible.
- **Mountebank:** fraud, impostor.
- **Clout :** authority, influence, predominance.
- **Adage:** A condensed but memorable saying.
- **Apocryphal:** Debatable, fabricated, fictitious.
- **Ersatz:** An artificial substance used as a substitute to a natural one.

# Access your productivity

Value of a person, whether in personal sphere or professional sphere, depends on productivity i.e. the outcome. At the end of the day what matters is how productive one is success, promotion appraisals, monetary benefits, perks, growth, harnessing potential value depends totally on productivity. Without being productive, one may get salary for a month or two but not for life. A productive person, that is why, never retires rather happily enjoy the work-life balance. To define, productivity is one ability to create/produce without much demands & disturbances. Professional productivity involves Quality & quantity, both. This means that the outcome of the labour should be proportionate to the time & energy invested in it. The outcome should be fruitful and commendable, if not unparallel. Secondly, the outcome must utilize recourses like time, money, manpower very judiciously (however, not miserly). Third and the most important that it should benefit. Most of the employees complain of not getting "Proper appraisals" or promotions or escalation despite their justifications. A peep into such cases tell that though the employee worked hard, did tasks and had been well mannered but "Something was lacking. This something is nothing but productive. You spend Eight hours at your desk, but do nothing. This simply means you did not perform some one spend two hours to fix any issue, it simply implies that the person was productive.

Being productive directly refers to be creative. How can one be productive??? Well, there are some tips one, be committed to the task as signed with objectives. Two, keep communicating and discussing about how for you have reached. Three, keep a strategic plan. Four, results Generate deadline. Five, keeping thinking about the results. Six, Get & use ideas. Seven, Be honest. Eight, work happily. Nine, look at your strengths & achievements. Ten, Enjoy the progress.

Productivity is just not related to muscles. It is related to mind, heart & wisdom. Author Robin S Sharma notes. "Productivity is less about what you do with your time, and more about how you run your mind." Productivity is also related to happiness. An unhappy cursing follow can never be productive. On the other hand if one his happy, he/she can generate positivity and enthusiasm to work with commitment. Shawn Achor puts is as, "Happiness inspires productivity." Whatever you do, whether working on a project or studying for a degree, keep working with happiness.

Setting smaller achievable targets is yet another way to gauge your productivity. They shall keep you motivating, help you see your progress and make you feel-good about your vision.

And finally, at the end of the day, Sit with your eyes ears closed towards the hustle-bustles and measure your performance of the day. Gauge your productivity. Evaluate what good you have done for the day & how near you have gone towards your goal. This exercise will either energize you or else will show you path to be productive.

To conclude with paul J.Meyer – "productivity is never an accident. It is always the result of a commitment to excellence, intelligent planning and focused effort.

- Strive not to be a success, but rather to be value. - **Albert Einstein**
- Life is made up of marble and mud. - **Nathaniel Hawthorne**
- It is a terrible thing to see and have no vision. -**Helen Keller**
- Our knowledge is a little island in a great ocean of nonknowledge. - **Isaac Bashevis Singer**
- Vanity is the quicksand of reason. - **George Sand**
- Change your thoughts and you change your world. - **Norman Vincent Peale**
- Toil is no source of shame; idleness is shame.- **Hesiod**
- Praise underserved, is satire in disguise.- **Alexander Pope**
- Some people go to priests; others to poetry; I to my friends. - **Virginia Woolf**
- A smile is a curve that sets everything straight. - **Phyllis Diller**
- Government's first duty and highest obligation is public safety. - **Arnold Schwarzenegger.**
- Society is always taken by surprise at any new example of common sense.- **Ralph Waldo Emerson**
- Men Willing believe what they wish. - **Julius Caesar**
- Only a life lived for others is a life worthwhile. - **Albert Einstein.**

### Story

## Sometimes Just let it be

Once Buddha was walking from one town to another town with a few of his followers. This was in the initial days. While they were traveling, they happened to pass a lake. They stopped there and Buddha told one of his disciples, "I am thirsty. Please get me some water from that lake there".

The disciple walked up to the lake. When he reached it, he noticed that some people were washing clothes in the water and, right at that moment, a bullock cart started crossing the lake right at the edge of it. As a result, the water became very muddy, very turbid. The disciple thought, "How can I give this muddy water to Buddha to drink?!" So he came back and told the Buddha, "The water in there is very muddy. I don't think it is fit to drink".

So, the Buddha said, let us take a little rest here by the tree. After about half an hour, again Buddha asked the same disciple to go back to the lake and get him some water to drink. The disciple obediently went back to the lake. This time he found that the lake had absolutely clear water in it. The mud had settled down and the water above it looked fit to be had. So he collected some water in a pot and brought it to the Buddha.

The Buddha looked at the water, and then he looked up at the disciple and said, "See, You let the water be and the mud settled down on its own. You got a clear water. It didn't require any effort".

Moral: Your mind is also like that. When it is disturbed, just let it be. Give it a little time. It will settle down on its own. You don't have to put in any effort to calm it down. We can judge and take best decisions of our life when we stay calm.



# Guest Lecture

## Career Planing in Today's Scenario

Department of Mechanical Engineering organized a guest lecturer on 28 March, 2018 for 6<sup>th</sup> semester students at CSIT, Durg Total 59 students attended the guest lecturer.



The resource person for the lecture was Mr. Archit Soni (CSIT Alumni) and he discussed on career planning and Time Management. Mr. Archit Soni is working as Grade 2 officer, RBI, Bhopal.

Mr. Archit Soni has explained about the opportunities available for engineering students in govt. services, manufacturing and service companies and explained ways to set goals according to skills, and the need of time management.

A good interaction session was witnessed. Students clarifies their doubts and learnt various strategies to study smart.

## Emerging trends in Embedded Systems and Applications

Department of Electronics & Telecommunication organized a guest lecture on topic "Emerging trends in embedded systems and applications" on 19 March 2018 for 4<sup>th</sup> and 6<sup>th</sup> semester students of ETC and IT. Mr. Rahul Agrawal, Former Engineer, KPIT Technologies, Pune was the Guest Speaker.

Mr. Rahul Agrawal started the session with defining the Embedded system as the electronic system which integrates the hardware circuitry with the software programming techniques for providing project solutions. He also stated that in our day-to- day life we frequently use many electrical and electronic circuits and kits which are designed using embedded systems technology. The computers mobile phones, tablets, laptops, digital electronic systems, and other electrical and electronic gadgets are designed using embedded systems.

In his lecture he shared that an embedded system is basically an electronic system that can be programmed or non-programmed to operate, organize, and perform single or multiple tasks based on the application. In the real time embedded



systems, all the assembled units work together based on the program or set of rules or code embedded into the micro controller.

In his talk he correlates an electronic system with an embedded system and try to make session more interactive. He said that Every electronic system consists of hardware circuitry, similarly, embedded system consists of hardware such as power supply kit, central processing unit, memory devices, timers, output circuits, serial communication ports, and system application specific circuit components & amp; circuits.

The effect of session on students actually flashed when students themselves were confident enough to take the charge of mic and discuss their queries. The students directly talked to Mr. Rahul Agrawal and were privileged in giving feedback to him. The Guest lecture ended with a vote of thanks by Mr. Deepak Sharma.

## Health Issues related to Computers.

The excessive usage of computers by youth and children is leading to adverse effect on health and socio-psychological aspects. In order to create awareness about health issues generated by excessive exposure to electronic devices, the department of EEE organized a Guest lecture of Dr. Meenakshi Masih who has expertise in ophthalmic. Dr. Meenakshi has been working as Anterior Segment surgeon and Glaucoma Specialist at Shri Arbindo Medical Research Center, Raipur. She has treated and guided many patients to overcome eye-related ailments. In her lecturer delivered on 19 March 2018. She described how eyes get stressed and the ways to give exercise and rest to the eyes. She said that continuous focus on monitors and cell-displays are harmful for eyes.



# Industries Expectations and Employability

A guest lecture was organized by department Mechanical Engineering on 20 March, 2018 at CSIT, Durg for the 4<sup>th</sup> & 6<sup>th</sup> semester students. The guest speaker was Mr. Surrender Kr. Langewa from Sarda Industries Pvt. Ltd. Raipur. Total 129 students attended the programme.



Mr. Surrender Kr. Langewa discussed about the various requirements of industrial needs. He discussed all the Major topics from minimum to maximum requirement of industries. He suggests students to gain more practical knowledge and enhance their employability skills like critical and Analytical thinking, general awareness and good speaking skills. He further discussed the importance of feedback in industries.

## Internet of Things

A guest Lecture was organised by Information Technology Department for 4<sup>th</sup> and 6<sup>th</sup> semester students of IT and ETC Dept. on 21<sup>st</sup> March 2018 at F-2 Hall. The resource person of the lecture was Mr. Rohit Trivedi, Chief Operating Officer, IoT Academy, Bhilai. This session was organized to make students aware about basic concepts of IoT and its applications for project design. The session was attended by 50 students of IT dept, 18 students of ETC.



The session began by briefing students about basic concepts of "Internet of Things", smart city and smart sensors. He explained the difference between a product, a smart product and a smart connected product. He also explained 4-Layer model for IoT, how connectivity is developed among various devices using sensors, how data is transmitted from sensors to a master computer and analyzed.

He highlighted the scope of the topic, its applications, future impact and spoke about several courses and job opportunities in the area. He further added that IoT has a major role to play in applications which minimize human intervention required in activity. For example, in day-to-day activities such as home maintenance alerts can be provided at various points like filling a refrigerator, buying oil for the vehicle, checking locks in the house, using purely automated mechanisms but which would seamlessly integrate with human life involved.

Mr. Trivedi addressed various doubts of students on IoT. The lecture will not just benefit students in understanding applications of IoT but also exploring the various career opportunities that they could look forward to in near future. The session was concluded with vote of thanks proposed by Mrs. Sudha Iodhi, Asst. prof., IT Dept. and a Memento was presented by Mr. Deepak Sharma, Associate Prof., ETC Dept..

## Add on Program on Technical Communication

The Department of EEE organized an add-on programme on the topic "**Technical Communication**" for 4<sup>th</sup> & 6<sup>th</sup> Semester Students of EEE & ETC Department on 13 and 14 March 2018. The programme covered topics on oral and written Professional Communication. The programmer was conducted Dr. Chandra Shekhar Sharma (Head-Department of English).



## Wireless Sensor Networks and IoT

A guest Lecture was organised by Electronics & Telecommunication and Information Technology Department for 4<sup>th</sup> and 6<sup>th</sup> semester on 09<sup>th</sup> March 2018 at F-2 hall. The resource person of the lecture was Dr. Suraj Sharma, Asst. Prof from IIIT Bhuwaneswar. It was conducted for the awareness of the technology and characteristics of Wireless Sensor Networks and IoT in the worldwide application.



The session was started by briefing students about 'Wireless Sensor Networks and IoT' with the help of real life applications such as smart grid, smart homes, smart water networks, intelligent transportation and infrastructure systems that connect our world. He addresses the challenges and future trends of WSNs in a wide range of applications in various domains, including ultra large sensing device access, trust security and privacy, and service architectures to name a few.

He discussed the use and evolution of WSNs within the wider context of IoT, and provides a review of WSN applications, while also focusing the attention on infrastructure technologies, applications and standards featured in WSN designs. The lecture has not just benefited students in understanding WSNs and IoT but also help in exploring the various career opportunities that they could look forward to in near future.

# HISTORY OF ELECTRICAL MEASUREMENTS

The first half of the 19th century brought brilliant discoveries in electromagnetism. In 1820, the French André-Marie Ampère (1775-1836) discovered the electrodynamic interaction between currents. In 1827, the German Georg Simon Ohm (1787-1854) discovered the relationship between voltage and current in a conductor. In 1831, the British Michael Faraday (1791-1867) discovered the law of induction, on which the operation of generators, motors and transformers is based. By the second half of the century, the soil was well prepared for practical applications. Discoveries were followed by inventions and patents. The lamp, the dynamo, the motor, the transformer, the meter and the turbine were invented in quick succession. It is not surprising that once the time is ripe, milestone inventions are achieved quasi-simultaneously in different parts of the world. The Hungarian Ottó Titusz Bláthy, inventor of the induction electricity meter and co-inventor of the transformer, looked back in 1930 to this exciting period. With the invention of the dynamo (Anyos Jedlik in 1861, Werner von Siemens in 1867) electrical energy could be generated in large amounts. The first mass application of electricity was lighting. When this new product – electrical energy – started to be sold, it was obvious that the cost had to be determined. It measured the time during which energy was supplied to the load, as all the lamps connected to this meter were controlled by one switch. Subdividing lighting circuits became practical with the introduction of Edison's light bulb. Thomas Alva Edison (1847-1931), who introduced the first electrical distribution systems for lighting using direct current, held that electricity must be sold just like gas – also used extensively for lighting at that time. It contained an electrolytic cell, into which an accurately weighed strip of copper was placed at the beginning of the billing period. The current passing through the electrolyte caused a deposition of copper. At the end of the billing period, the copper strip was weighed again, and the difference represented the amount of electricity that had passed through. The meter was calibrated so that the bills could be rendered in cubic feet of gas. There were other electrolytic meters, like the German Siemens-Shuckert hydrogen meter and the Schott & Gen. Jena mercury meter. Electrolytic meters could measure only ampere-hours and were not suitable when the voltage fluctuated. Another possible principle upon which to build a meter was to create some motion – oscillation or rotation – proportional to the energy, which could then drive a register to read. Another possibility was to use a motor to build a meter. In such meters, the driving torque is proportional to the load and is balanced by a braking torque, so that the rotor speed is proportional to the load when the torques are in equilibrium. A practical transformer was developed and patented for Ganz in 1885 by three Hungarian engineers – Károly Zipernowsky, Ottó Titusz Bláthy and Miksa Déri. In the same year, Westinghouse bought the patent of Gaulard and Gibson, and William Stanley (1858-1916) perfected the design. George Westinghouse (1846-1914) also bought the AC patents of Nikola Tesla. With this, the AC electricity system became feasible, and from the beginning of the 20th century it gradually took over from DC systems. In metering, a new problem had to be solved – the measurement of AC electrical energy. Shallenberger also – by accident – discovered the effect of rotating fields in 1888, and developed an AC ampere-hour meter. By the turn of the century, three-phase induction meters were developed using two or three measurement systems arranged on one, two or three disks. Induction meters, also known as Ferraris meters and based on the principles of the Bláthy meter, are still manufactured in large quantities and are the workhorses of metering, thanks to their low price and excellent reliability.



↳ *Mr. Anand V. Bakshi, Asst. Prof., EEE Dept.*

## FIVE THINGS TO DO

- 1. Learn to swim**  
It will change how you think about large bodies of water – like the sea, river, etc. You will enjoy natural beauty of this sort a lot more in the knowledge that you will not sink like a stone. Of course, unless you are a strong swimmer, survival may still be doubtful. But you will feel better, gazing out at water, listening to the sounds of it – water gurgling, sea birds and the like. Ben Randall and Gold Fish may inspire you to be the best swimmer you could be. Buy good goggles and find a nice large, deep swimming pool with standard aeration equipment. When you swim in one and open your eyes in the water, you will get a dose of the breath taking. It may remind you of something you learnt, like refraction you studied in school. Well, the deep end of a 50m pool allows you to see what refraction is.
- 2. Run a marathon**  
There are a number of physiological cause-events due to which going on long runs is really good for you. It is one thing to know that the distance from A to B is 35 km. It is quite another thing to know it – like the distance at which you 'hit the wall'. Develop a love for running. You will meet good people, and have conversations about topics like chaffing, blisters, muscle strains, twisted ankles and such. Most of it would be what the world at large considers to not be polite.
- 3. Stop eating refined sugar**  
This one is related to the earlier advice. It all started with an ardent distance runner who wrote a long, fascinating blog post on the ills of consuming refined sugar and how knocking it out of his diet helped him dip down to the weights at which serious amateur runners operate. If there is one thing that you should go cold turkey on, it is eating refined sugar.
- 4. Consider First law of communication management**  
First law of communication management (don't Google it bcuz. it doesn't exist on paper but mostly from experience) states that the first thing that comes to your mind, you shouldn't say it. Know it is dumb and pompous, and at its very best, somebody has already said it in an erudite manner. But acknowledging that I am amongst the average lot whose thoughts are best kept secret has been rather useful (I think) in keeping me out of harm's way (touch wood). When you think there is an open conversation going on, you are wrong. It is much more likely that you are out of your depth and pride won't let you admit. Don't forget Marsellus Wallace. Pride only hurts, it never helps.
- 5. Pursue outside the usual**  
We all live in our respective 'Cave of Plato'. We understand the world through a bunch of shadows and are shackled so as to not know any better. Very few amongst us would bother to leave the cave, even fewer would consider coming back to it, and anybody who does would fail in explaining that there is more to the world than this cave, its shadows and shackles. It is important to make a habit of leaving the cave – it might not always be about making a lot of money but may keep you sane for longer.

↳ *Compilation: Dr. K. Sridhar*  
Professor, Mechanical Engg. Deptt.

## Career Counselling

**Knowledge rules when you sit across your prospective employer. Styling simply completes the circle.**  
You have landed up with your dream interview, now you wish to nail it at any cost. The primary key to get the job of your dream is to acquaint yourself with the culture of your prospective employer. You can then mimic the vibe of that office in your styling and can become the eligible candidate they've been looking for. Looking apart will also make you stand out among other candidates. "And we loved the idea of mixing jeans, jacket and a T-shirt, which is very French. It's classic and chic", says Elle's fashion director. These few deceptively simple tricks will accelerate your confidence to nail the interview, irrespective of the job you're gunning for.

**Attires that'll give you a thumbs up**  
Men should always prefer wearing a suit. Remember to keep all your clothes free of stains and have proper fit. Try wearing a long sleeved white shirt that coordinates with the suit. Wear a shiny leather belt. Dark socks and traditional leather shoes. Prefer to wear little or no jewelry at all. "A collared shirt and khakis or slacks would work. Same goes for women -- sweater or blouse and slacks or a skirt." ~ says Carole Martin, a former Monster contributor and author of Boost Your Interview IQ.

On the other hand, fashion for women is more complicated and varied than it is for men who have lesser options. Always try to go for formal suit in navy, black, or dark grey. A suit skirt just below or above the knee sounds like a bold idea. Coordinate properly the shirt or blouse you'll be Wearing. Always go for conventional shoes.

**Colors to Choose**  
Men can go for black, navy blue, gray suit, with a colorful button down and sweater for a business casual look. In a typical formal dress code, stick to classic colors with subdued prints, like a blue stripe. Neutral colors like brown, black and navy are decent choices, as they match many different shirt colors, including light pink, blue, green, yellow, or white shirts.

For women a pair of classic black slacks is good to go. You can experiment with fabrics, like the sheer silk chiffon in white, pink, yellow and blue. Try colours like navy blue. Gray blazer is a stylish choice and skirt.

A tasteful dress in subdued good addition for women. When the dress is simple. A navy blue skirt is black pencil skirt.

**Accessories**  
Always keep in mind that accessories should outline your overall personality, not overwhelm it. You can accessories your professional attire by adding basic color accessories like a black portfolio or a purse or a small briefcase that can hold all your belongings, plus what you need for the interview.

A right pair of shoes would make you feel more confident and professional. If you're going to wear a tie, few things make you look less like you know what you're doing than tying it poorly. Even if you're in a hurry, take the time to make sure that your tie reaches only till your belt, in other words the proper length.

**Pay Attention to Your Make-Up**  
If it is tech industry, ladies may choose to keep your look unkept but tidy. Otherwise, for a generic outfit wear gentle yet tasteful make-up in colors such as muted turquoise or subtle pink. Always remember that the lesser make-up you wear, more will be the emphasis on your skill and acumen. "In terms of beauty for an interview, I would never want my look to distract from my work. Clean and polished is key here. I focus on skin care with a little bit of cancellor, a subtle swirl of cream blush for a healthy complexion, an eyelash-warming swipe of bronze eyeliner, ean and a natural-looking mascara. It's just a slightly enhanced version of a makeup-free me," resolves Mackenzie Wagoner, Vogue.com, senior beauty writer. Men should be clean-shaven and should have trimmed hair and short nails.

**Fashion Disasters**  
Do not wear bright colors, animal prints or anything lacy, sheer, or low-cut. Your makeup should be minimal and understated always. Avoid bright or unusual colors. Don't try to jump on various dark color schemes. Basic colors would make you more systematic, down-to-earth and diligent. The idea is to present a subtle yet sharp look while with a bold fashion statement, you would end up creating a super ficial image for you.

## Style That Matters



colors like turquoise or deep red, is a working with bright colors, make sure a stylish alternative to the traditional

## SWAR Organised “FUNFAIR-2018” on Women’s Day

CSIT's women cell SWAR Strengthening Women Awareness and Rights organized “FUNFAIR-2018” on the occasion of International Women's day on 08th March, 2018 at the sports complex of the Institute. The objective of celebration was to show appreciation, respect and love towards women.

The Chief Guests of the event were Mrs. Manisha Verma and Mrs. Nandani Verma. The event witnessed active participation from all the departments. There were total 13 food stalls which were arranged and managed by faculty members and students of respective departments. All the stalls were beautifully decorated.

The event concluded with prize distribution by Er. Ajay Prakash Verma, Chairman, CSIT. The prizes included most nutritious stall, most decorated stall, most hygienic stall, most eco-friendly stall etc.



## Farewell Parties

### TOODLE DO’ 18

The third year students of Electronics & Telecommunication Engineering Department, organised farewell party “TOODLE DO - 18” for Final Year students on 2 April 2018. It is not just a party but a moment of starting hidden connection between the two, who are at far distance from each other. Students of 6th semester made this moment unforgettable for their beloved seniors.

After inaugural ceremony Director Sir shared his thoughts about the day and blessed the gathering with his motivational words. Honorable Chairman, Er. Ajay Prakash Verma Sir in his very motivational speech, told students about the transition phase which they are going to face in their life.

He informed them that from now onwards they are going to start their real life in which they will be having responsibilities of themselves, their families and of society, and in each every walk of life they have to prove themselves. He let them know that it is struggle for survival for the fittest. He invited them for any kind of help and support, which they would be requiring in future.

Final Year students were overwhelmed by the treat given by beloved juniors. In



## IT & ETC Deptt. Organised INNOVATION’ 18

**INNOVATION-18**, A State level Project and Poster Presentation competition, based on theme Social Welfare. It was jointly organized by Department Electronics and Telecommunication Engineering & Information Technology, on 16th March’ 2018 (Friday). The event witnessed the participation of 32 Teams, in two categories which are as follows 23 Projects and 9 Posters.

The main objective of this INNOVATION’18 was to provide the preliminary knowledge of the projects developed for social welfare and an opportunity for the students to demonstrate their learning experience.

For expert supervision, Dr. Bikesh Kumar Singh (HEAD BME NIT Raipur), Dr. Pankaj Kumar Gupta (Professor MECH CSIT Durg) and Mr. Prabhas Kumar Gupta (Associate Professor EI CSIT Durg) were present as judge for the day.

The inaugural of the INNOVATION 18 was graced by the presence of Dr. Anurag Verma, Director CSIT DURG, along with the Heads of various departments, eminent faculty members and staff members of department of ETC and IT.

Dr. Anurag Verma, Director CSIT, in his motivational address emphasized on the importance of learning new technologies and tools for the students.

Dr. Bikesh Kumar Singh shared his valuable knowledge among the students highlighting the importance of project making and hard work for success.



## Farewell at Girls Hostel

The junior girls residing at the CSIT Hostel organized a farewell party on 10 March for their seniors. The senior girls recounted their sweet moments and asked the juniors to learn & enjoy. Speeches, Songs, dances and games made the eve a very colorful event.

While juniors thanked the seniors for guidance & cooperation, the seniors acknowledged the love & respect given to them by juniors.



## Prawaas’18

The Farewell gathering of Mechatronics 8<sup>th</sup> semester students “Prawaas” was on 10<sup>th</sup> April 2018. The ceremony started with lighting of lamp and Saraswati puja by Director Dr. Anurag Verma, HoD Prof. Rajesh Kumar. Shri Rajesh Deshmukh, Director (Administration), Dr. Mangal Singh, (Professor in Charge Student Welfare), Shri Rajeev Nair (Corporate Relations Manager), Shri Rajesh Verma (Registrar). Chairman Sir, Er. Ajay Prakash Verma also graced the program his presence.

After the inauguration ceremony our respected HOD Sir welcomed all our seniors with a heartwarming address, followed by a speech from our esteemed Director Sir. Chairman Er. Ajay Prakash Verma spoke and stressed upon the importance of interpersonal relationships in achieving success and happiness in life. He wished the students of the passing out batch a very bright career and motivated them to be role models for the others.

Mr. Swapnil Shukla then went on to perform a heart melting song followed by a mimicry act by Mr. Nohar Nirmalkar both of sixth semester. The students of fourth semester performed a beautiful dance.

Mr. Vishawadeep Paul, Rohit Birse and Adarsh Pandey host the programe. At the end the momento's were distributed to our seniors.



## ADIOS’ 18

'ADIOS - 2018', Farewell for the final year students was organized by 6th and 4th semester students of the Department of Information Technology on 4 April 2018 (Wednesday) at Sambhaji Hall.

Farewell is a means of offering respect & expresses well wishes for the one starting new face of life. Students of 6th semester made this moment unforgettable for their seniors. With preparation of eye-catching invitation cards, they showed their motives for this occasion, for which they received huge appreciation.

'ADIOS' 2018 started with enlightening the ceremonial lamp by respected Dr. Anurag Verma (Director, CSIT Durg), Mrs. Neelam Dewangan (HOD IT) & Dr. Mangal Singh (in-charge of Student Association & Welfare). After inaugural ceremony, Respected Director Sir, shared his knowledge and guided the students for their future ambitions and also congratulated the students for organizing farewell.

Later on Er. Ajay Prakash Verma (Chairman, CSIT Durg), also graced the event by his kind presence. On special request Chairman Sir shared his thoughts with the students. He told to give gratitude to parents and the difference between real life problems and examinations and further explained that in exam problems can be solved as our wish but in real life all the problems need to be solved sequentially. He also explained importance of friends in life. Respected Chairman Sir also motivated the students for proper time management.

In continuation, interaction with the seniors started and they shared their experiences and motivated students of 4<sup>th</sup> & 6<sup>th</sup> semester to participate and excel in life. The final year students also shared their views about the engineering experiences at CSIT and expressed gratitude towards the Chairman Sir, Director Sir, HOD madam and all the faculty of the department for providing proper guidance and motivation.

Gifts were distributed to the 8th semester students. The titles of Mr. EVE & Ms. EVE were given to Neelash Banchhor & Pooja Dabi. In continuation, the titles of Mr. ADIOS & Ms. ADIOS were given to Ajay Kaushik & Harshita Verma.

The event ended with the vote of thanks given by Priyanka Reddy (IT - 6<sup>th</sup> Sem). We are thankful to the CSIT management for providing all the facilities to organize this event successfully. We are also thankful to Dr. Mangal Singh, in-charge of Student Association & Welfare for the helpful guidelines and kind support for organizing this event.

## Fire Forever’ 18

Students of 6<sup>th</sup> semester of Department of Mechanical Engineering organized farewell party for 8<sup>th</sup> semester student on 3 April 2018 at SMH, CSIT, Durg.

The programme started with candle lighting by Director Sir, Dr. Anurag Verma and Head of Department Dr. K. Sridhar followed by Saraswati Vandana. The dignitaries motivated the students to become good citizen and advised not to forget the institution, teacher and parents who molded their character and destiny. And also suggested to contribute whatever good things they can contribute to the society. Cultural activities such as dance, songs, Drama and speech were presented by students.



Glimpses

# AICON' 18



# WOMEN'S DAY



# MAKE YOUR MOVE



# TOODLE DO



# VALEDICTION



# ADIOS



# RIWAAZ



# TREASURE HUNT



# TRAFFIC WEEK



# FIRE FOREVER



# HASTA-LA-VISTA



# GIRL'S HOSTEL DAY



# PRAWAAS

