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SLATE

Silicon Language for Arts Technology & Education

Our Mission: "To provide the best of technical skills, professional ethics and human values in enriching the disciplines of Science, Engineering and Technology for social development and Nation building"
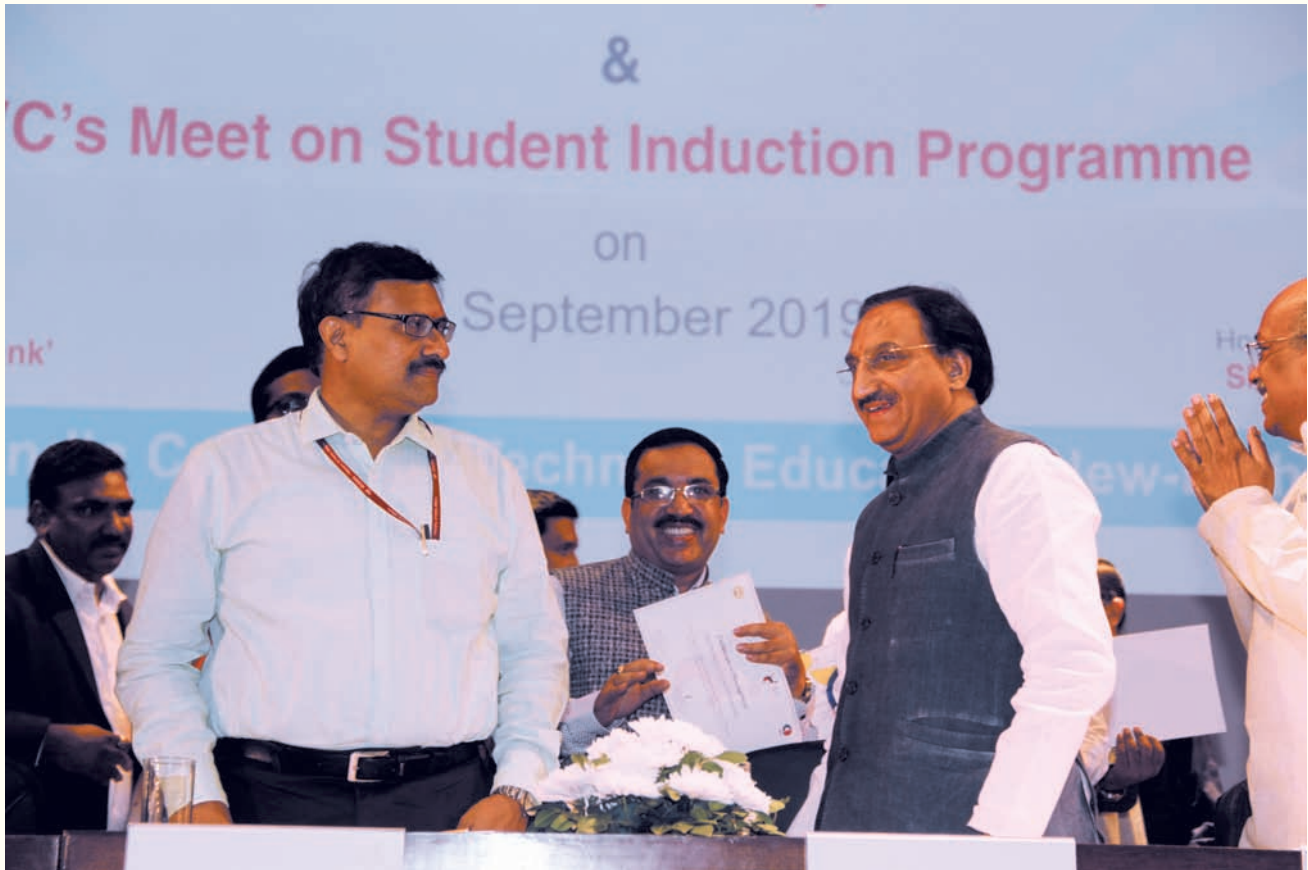
Dr. Mahendra Prasad Agasty, Project Coordinator, Silicon Entrepreneurship Development Cell, Bhubaneswar receiving an award from IIC-MHRD for the Academic Year 2019-20.

A glimpse from Alumni Meet-2019 and a glimpse from Induction Program 2019-20

When your values are clear to you, making decisions becomes easier – Roy E. Disney

From the Editor's Desk ...

Dear Readers:

It's been a while since we shared some great news with you from our institute. Let me talk about the newest activities we have come to organise – TEDx, the independent events similar to TED. TED, short for Technology, Entertainment and Design has the mission of "ideas worth Spreading". These popular programmes organize talks on innumerable topics such as science, technology, business, innovation, environment, communication and much more which have been delivered by world famous people who have done significant work in their field. TEDx, on the other hand promotes TED's mission in local communities around the globe with free license from TED. Silicon has been proud to kick start such events under the banner TEDx SITB. On 15 September 2019 we organized a talk "Unbox your Minds" delivered by Mrs. Snigdha Panigrahi, LLM (Human Rights) and member of Woman Commission to mark the beginning of it. On 15th December renowned personalities such as Arfi Lamba, Vijay Mahajan, Rajesh Patil, Alokesh Sinha, and Ms Vidisha Kondoi delivered their talks under the banner. The theme was "Half Empty or Half Filled?" Each speaker brought their rich experience and exposure to the event, making it special in every way. We look forward to organizing more such influential talks in future to spread ideas that are worth spreading.

Habituated as we are with winning awards, this time Akash Dash, 4th year Computer Science, has won the ISTE Best Student Award for the year 2019. This achievement of Akash along with his selection in Infosys with a higher role and a higher pay package and his sheer determination with which he has cleared Value Labs has certainly made us proud of him. We wish him great luck for his future endeavours. We have featured an interview with Akash in this issue.

We were tremendously honoured this time when UNESCO Kalinga Prize Laureate, eminent scientist Dr. Eric Jacquemyn visited Silicon for a special talk on "Popularization of Science". This issue hence contains a special feature on Dr.Jacquemyn, which will definitely make a great reading.

Added to this you get glimpses of events that have kept the institute abuzz for two quarters.

Do read this issue for more such news, achievements and interesting features.

Priyambada Pal
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Abhijit Banerjee

We must arm ourselves with patience and wisdom and listen to the poor what they want. This is the best way to avoid the trap of ignorance, ideology and inertia on our side.
— Abhijit V. Banerjee in Poor Economics

Abhijit V. Banerjee, the winner of The Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel 2019 along with wife Esther Duflo, is a name well renowned in the field of Development Economics. He is currently at the Ford Foundation International Professor of Economics at the Massachusetts Institute of Technology.

In 2003 he founded the Abdul Latif Jameel Poverty Action Lab (J-PAL), along with Esther Duflo and Sendhil Mullainathan and remains one of the Directors of the lab.

In 2009 J-PAL won the BBVA Foundation "Frontier of Knowledge" award in the development cooperation category. Banerjee is a past president of the Bureau for the Research in the Economic Analysis of Development, a Research Associate of the NBER, a CEPR research fellow, International Research Fellow of the Kiel Institute, a fellow of the American Academy of Arts and Sciences and the Econometric Society, has been a Guggenheim Fellow, an Alfred P. Sloan Fellow and a winner of the Infosys prize.

In 2011, he was named one of Foreign Policy magazine's top 100 global thinkers. His areas of research are Development Economics and Economic Theory. He is the author of a large number of articles and three books, including "Poor Economics" which won the Goldman Sachs Business Book of the Year. He is the editor of a fourth book, and he finished his first documentary film, "The Name of the Disease," in 2006.

Most recently, Banerjee served on the U.N. Secretary-General's High-level Panel of Eminent Persons on the Post-2015 Development Agenda.

In a recent pact, Odisha Government set up partnership with Abdul Latif Jameel Poverty Action Lab (J-PAL), for targeted intervention in a set of social sectors including poorest of the poor through policy formulation and evaluations based on experimental research.

This is the first comprehensive partnership of J-PAL with an Indian State after the Banerjee-Duflo duo was conferred the Nobel Prize for Economics. J-PAL is going to work in at least eight districts of the State including the KBK region on improvement of poorest of the poor, women as well as nutrition. It aims to take large variables from the districts to work on and match them with those in existing research models to devise the evaluation and policy formulations. It is known for conducting comprehensive house-to-house survey to chalk out its research models.

Earlier in September, J-PAL had inked a pact with National Health Mission of Haryana Government to improve its health outcomes through better programme implementation. In 2014, Tamil Nadu Government had tied up with the poverty action lab for implementation of various schemes in poverty alleviation, health as well as education sectors.

Abhijit Banerjee is known for his experimental research studies or randomized controlled trials; worked extensively in Africa as well as India and his evaluations have helped improve outcomes of social sector initiatives.

Truly said, he is a jewel of the Indian States that works hand in hand, striving to remove poverty from the equation through solutions that are tried and tested.

Isha Bharadwaj
CSE, 3rd Sem.

If you don't stick to your values when they are being tested,
They're not values, they're hobbies – Job Stewart

Guru Ka Langar : A Service and a Lesson

India is a land of diversity and rich cultural heritage. The Langar tradition of Sikhs is a perfect testimony to this fact. We all have been to Gurudwaras regardless of our faith for the peace and tranquility but this visit is incomplete without sitting in a "Pangat" and having Dal and crisp Rotis in the Langar.

'Langar' is the tradition of serving food, to the whole community irrespective of the social status, gender or faith. Langar was initiated by Guru Nanak Dev Ji and then formally established by the 3rd Guru, Guru Amar Das Ji, who made it a point that anyone who wished to have an audience with him had to first sit with the community and have Langar. Even the Mughal King Akbar had to sit among the ordinary people for Langar in order to have an audience with the Guru.

As the story goes, Guru Nanak Dev was given some money by his trader father for business. He was told that a good bargain makes for good profit. Guruji came across men who looked poor and were hungry. He used the money to feed them and returned home with no profit. His only defense to his angry father was that true profit is found in selfless service or Seva which still stands strong in the core values of Sikhism.

The most famous Sikh shrine, Golden Temple, serves 40,000 to 80,000 people on weekdays, while on weekends the number doubles up. At every Gurdwara service, a Langar meal is prepared and offered. All the preparation, the cooking and the washing-up is done by volunteers called "Sevadars". With the cluttering of steel plates, constant churning out of Rotis and rush of people around these Sevadars make sure that no one returns with an empty stomach.

Guru Nanak Dev Ji's idea behind establishing the Langar culture was to do away with the caste system prevalent at those times and create a sense of unity, equality and togetherness in the whole community this idea was very well honored by his later successors and this tradition has managed to survive with all its glory into the modern times. Langar itself is a learning experience for everyone who chooses to be its part let it be through "Seva" or being a part of the "Pangat". It teaches us to be humble, generous and compassionate towards the mankind. It reflects the strong and pure values Sikhism was created with and is an ambassador of the Indian culture and its majestic beauty.

Sanath Kumar Swain
EEE, 5th Sem

Men's Mental Health: Is This a By-product of Toxic Masculinity?!

We live in a world where if you break your arms, everyone runs towards you to sign your cast, but if you tell them that you are depressed everyone runs the other way. We are so accepting of any body part breaking down other than our brain. This ignorance has created a world that doesn't understand depression and mental health. In a society that cares more about materialistic happiness, topics like mental health are rarely discussed by the common masses. But it is high time people understood the implications of not talking about these things because the numbers are baffling in nature.

A question must be rising in the reader's mind "Why is the writer talking about men only? Isn't mental health a general phenomenon?" Men seem to experience and cope with depression in different ways than women but it's important to consider the impact of societal ideals of masculinity on the differences. Being brought up in a culture where toxic masculinity is in our genes, it takes a lot of courage for someone who wants to speak up. The dialogue in Amitabh Bachchan starrer movie MARD - "*Jo mard hota hai naa, usko dard nahi hota*" (meaning men do not feel any pain), is the very testimony to what's wrong with our culture. Toxic masculinity refers to actions that discourage display of emotion other than anger in men while also encouraging behavior that will deem the male "dominant" in a given situation. Even as children, young boys who express feelings are compared to girls in a negative context. Common responses to young males who become emotional include-

"Boys don't cry!", "Don't cry like a girl!", "Be a man-get over it!" etc.

Imagine being a young boy, crying over a painful injury or an emotional heartbreak that feels like the end of the world, and then being told to "man up," instead of being gently asked what's making you cry, how you feel about it, and what you think you can do about it. When feelings are dismissed and gender-defining thinking is heard repeatedly, a young person learns to avoid expressing their real feelings and begins to bottle up sadness. Over time, such behavior can lead to a dysfunctional emotional expression and ultimately, depression. Traumatic events lead to depression, and we need to accept this fact instead of dispiriting the problem and the sufferer.

To help men one has to help them get rid of their hesitation in sharing their emotions. Crying must not be associated with gender roles. Addressing and processing emotions is what makes us human, and crying is a fundamental emotion. Each person is born with unique assets and challenges that affect how they grow and develop biologically, psychologically, and socially. Adult family members as well as adults in neighborhoods, schools and the broader community, can facilitate that person moving toward growth and development. Help them face risks and challenges by helping them achieve a positive outcome. We can change the model of masculinity by telling children that it's fine for boys to express and show emotion. Male role models can practice what they preach by expressing affection and emotion: telling their children they love them; being comfortable hugging them; showing that it's okay to cry at weddings, funerals, when they are injured, etc. and discussing everyday emotions such as, "my day at work was overwhelming and I struggled with some low points." Teaching boys how to express their emotions adequately is the key to helping them become emotionally expressive. These lessons will have a positive effect on their life in the future. It has been too long, that we have lived with the traditional model of masculinity, now is a great time to change how the society perceives emotional responses in men because at the end of the day, a happier world is all we need.

Pratik Nayak
ECE, 5th Sem,

Peace of mind produces right values, right values produce right thoughts.
Right thoughts produce right actions – Mark Richardson

Stronger Willpower, Better You!

Action is the foundational key to all success.

Imperfect Action is Better than Perfect Inaction

Success consists of going from failure to failure without loss of enthusiasm

"Your will is a stronger force than anything else in the world. And wherever it takes you, it will be the right path."

I've seen people fight huge battles on their own, with the society, with their own selves, and so much more, and it has always surprised me how much they have been able to achieve single-handedly. It always made me wonder what gave them the strength to keep fighting, and I kept looking for answers in the external world – motivational words, friendly support or even monetary assistance. But it took me a lot of time and personal experience to find the answer to this question, and what surprised me the most was the fact that the source of this strength lies right inside us, within our hearts.

It is nothing but our own will power.

People often say that what a man can do united with everyone is incomparable to anything else, and can never be achieved single-handedly. But what a person can accomplish alone is miraculous, one only needs to have faith in his own self.

I've seen people achieve several milestones owing only to their own patience and strength. People have had miraculous changes in their lives, and the key to this lock lies right inside our own soul-our own will power. You'll find many people brushing it off as 'an excuse for unaccountable incidents', but I've seen miracles through my own eyes, and they have only happened because the person had the will and intention to keep going. Magic is indeed mythical, but miracles happen every day. And most of the time, we are the ones who make these miracles happen.

When faced with a difficult situation, what you really need is the right mindset that will help you to keep going despite all setbacks, and it stems from a strong will power. A person with a determined personality can achieve way more than a person with good resources, because what we do is inspired from what we have within us, not external factors. You don't have to be extraordinarily talented or skilful to be an inspirational person, often a strong determined will power is all you need.

So the next time you face a difficulty, remember to keep a positive mindset and a good will power, and you'll sail through it.

Shreya Sarkar
CSE, 3rd Sem

Cycling – an Exciting Way to Stay Fit

"It is health that is real wealth and not pieces of gold or silver"

– Mahatma Gandhi.

In this fast-moving world where our technology has become very fast, the irony is that our lifestyle has become sedentary. And this puts a negative impact on our health. To be healthy and fit one needs to be physically active. Regular physical activity can protect us from serious diseases like obesity, heart diseases, cancer, mental illness, diabetes and arthritis.

Cycling is the best way to stay away from diseases associated with sedentary lifestyle. It is healthy and a low impact exercise that is enjoyed by people of all ages. Along with being cheap, it is fun and good for environment too. Riding to work or to nearby places is one of the most efficient ways to combine regular exercise with everyday routine. An estimated 1 billion people ride bicycles everyday- for transport, recreation and sport.

Cycling is a best way to reduce weight and have control over obesity. It raises our metabolic rate, builds muscles and burns our body fat. Research suggests that one should be burning at least 8,400 kilojoules that is nearly equal to 2,000 calories per week through exercise and steady cycling burns about 1,200 kilojoules that is nearly about 300 calories per hour. It is an ideal form of exercise for people suffering from osteoarthritis, because it is a low impact exercise and places less stress on joints and also improves strength, balance and coordination.

Due to sedentary lifestyle the rate of type 2 diabetes is increasing. But one can easily avoid this by adding cycling in his/her daily routine. Large scale research in Finland found that people who cycled for more than 30 minutes per day had a 40 percent lower risk of developing diabetes. Cycling not only strengthens our heart muscles, but also lowers resting pulse and reduces blood fat levels. As it is an aerobic activity, it helps for the workout of our heart, blood vessels and lungs. Thereby improving the function of our heart, lungs and circulation and reducing the risk of cardiovascular diseases. A Danish study conducted over 14 years with 30,000 people aged 20 to 93 years showed that regular cycling protected people from heart diseases.

Dalai Lama said that a calm mind brings inner strength and self confidence which is very important for good health.Cycling is not only restricted to physical fitness but it also helps to maintain a proper mental health. Mental health conditions such as depression, stress and anxiety can be easily reduced by regular cycling. The reason for this is because of the effect of regular exercise and the enjoyment of riding a bicycle itself.

Cycling also helps us breathe deeper, perspire and experience increased body temperature which improves our overall fitness level. Along with such amazing health benefits it has zero impact on the environment. One must include cycling in his/her daily routine to stay healthy and fit in the most exciting way.

Sushree Priyadarshini
AEI,5ᵗʰ Sem

TiE Bhubaneshwar – The Indus Entrepreneurs

The Indus Entrepreneurs (TiE) is the largest non-profit organisation which was founded in 1992 in Silicon Valley by a group of entrepreneurs, corporate executives and professionals with roots in the Indus region. The mission of TiE is to foster entrepreneurship globally creating wealth for both the entrepreneur and the local communities. TiE Global has 12,000 members and over 1,800 charter members in 61 chapters in 12 countries.

TiE Bhubaneswar led its stepping stone in March 2011 to cultivate and nurture the ecosystem of Odisha's entrepreneurship. It has 45 members and presently it's led by Debasish Patnaik who is serving as President of TiE Bhubaneshwar and is the Director of Hotel Crown. It has many eminent entrepreneurs of Odisha as its Charter Members who are ready to lend their helping hand to the young and budding entrepreneurs of the state. Keeping the global reach and a local focus, the heart of TiE resides in its 5 Pillars – Mentoring, Networking, Education, Funding, and Incubation. It has amazing networking effect as it connects the entire entrepreneurship ecosystem from early stage entrepreneurs, serial entrepreneurs, professionals at leading corporations, venture capital, angel investors, thought leaders among others. Many Educational Institutes are also associated with TiE Bhubaneswar for spreading & developing the entrepreneurial era.

Recently it has launched an angel fund of Rs 10 crores, christened as 'Bhubaneswar Angles' to provide seed capital to the start-ups in the state. "Initially started with Rs. 5 crores, the fund will go up to Rs 10 crores and each entrepreneur would be eligible to get between Rs 10 lakh to Rs 50 lakh depending on the viability of the project," said Debasish Patnaik, President, TiE Bhubaneswar.

TiEcon, professional and networking conference for entrepreneurs is the foremost and most widely known event of TiE. It also hosts a wide range of events like TiE Young Entrepreneurs, TiE University Cup for student members who are interested in learning about business basics, entrepreneurship and latest trends in the industry and TiE Women's Forum for empowering women entrepreneurs.

Dr. Sumona Karjee Mishra founder of Prantae Solutions, a biotech start-up in Odisha, is among 15 women entrepreneurs in the country to be awarded TiE-BIRAC Winner Award for women in Entreprenuerial Research. Her biotech start-up develops diagnostic solutions and devices with a primary focus on pregnancy healthcare and other related disorders. Odisha based start-ups like Equiera, Woimee, Triptales, D.D.Biotec and Swargadwara.com have been selected for special mentoring and support by TiE Bhubaneshwar.

TiE Bhubaneshwar in collaboration with TiE Silicon Valley also hosted Odisha's first start-up conclave bringing a network of tech entrepreneurs together on one stage. It is working rigorously with the government on schemes like #MakeInOdisha and #Start-upOdisha with the aim to elevate Odisha to top three startup destinations in India by 2024 with a target to set up 1,000 start-ups in the next five years.

Rishav
ECE, 5th Sem

Akash Das, 7th sem, CSE-B, has proved his all round excellence through achievements like receiving the ISTE- Best Student Award, being offered the role of Power Programmer at Infosys and clearing ValueLabs. This interview taken by Sushree Priyadarshini, 5th sem. AEI tells us about his experiences through out.

Sushree: Congratulations. How do you feel being awarded the best student award by ISTE?

Akash : Thank you for the warm congratulations. It was a pleasant surprise for me when I was first told about this. I had never expected to be bestowed with such honour. So, receiving this award was a moment of revelation for me. Five days prior to getting this award, I had lost my grandfather. He was the person most responsible for where I am today. And I count this award as one of his parting blessings. But those blessings wouldn't have materialized had it not been for the relentless guidance of my teacher, our HOD and all the higher-ups of our college who have supported me along the way.

Sushree : Congratulations on making it through InfyTQ as well. How did you make it up to this mark?

Akash : The first round of InfyTQ was a comprehensive test at KIIT campus. The second round was a gruelling take-from-home coding challenge. Our college and the II-Cell, in particular, were very supportive in providing amenities and making arrangements for each one of us taking the test, and even after that. There were 2 successive interviews following Round 2, one technical and the other one testing communication prowess. Upon clearing them, I was offered the role of a Power Programmer at Infosys. The pre-placement training conducted by our college helped a lot with the process.

Sushree : You even got into ValueLabs.

Congratulations on that. Please tell us about your experience.

Akash : ValueLabs will always remain an indelible experience for me. The first round of the recruitment process was an online test. I skimmed through the test as I was in a hurry to go home. It was because my grandfather was admitted to the ICU. He passed away the next day. On the same day, the results of round 1 were declared, and I had been shortlisted. Instead of mourning, I made up my mind to pay homage by coming and sitting for the interview. The interview round was three-layered - an HR interview, a technical interview and lastly, a Skype interview. The interviews provided me with a great opportunity of exposure to some of the top brass in the industry. It was an indulging and enlightening process indeed. Fortuitously, things worked out for the best!

Sushree : How did you manage these challenges along with your semester studies?

Akash : I had never found these to be hurdles or challenges. When you enjoy something, even if it's difficult, it becomes more of an opportunity and less of an obstacle. I have always loved coding, computer science and English. So, for me, semester studies and placement preparations were not distinct entities. Rather they were part of the bigger picture.

Sushree : How do you spend your spare time?

Akash : Most of my leisure hours are devoted to teaching computer programming or blogging to several people in Bhubaneswar and Cuttack. Teaching is something I have always had a knack for. In addition to that, I am a staunch follower of international politics and informative videos. At times, I also like to take some time off for exploring places.

Sushree : Any message for our readers?

Akash : As we grow into adulthood, a sudden pressure looms menacingly. It can be the pressure for placements, pressure for clearing entrance exams or pressure regarding the shift in paradigm. Instead of cowering from the mist of uncertainty, the only way forward is through it. If you are good at something, sooner or later you will be rewarded for it. If you are passionate about something, you will find a way to be good at it. If you haven't found your passion yet, then keep looking for it.

Prof. Dr. Satyananda Champatiray has been the Head of the Dept. of Information Technology at Silicon since 2011. In this interview he has talked at length about the IT department which is to close down shortly and his feelings about it apart from the Anti-ragging committee which he heads and its role at Silicon.

Disha : Sir you were the Head of Department of Information and Technology branch for many years. As we know that 2020 is the last batch having Information Technology branch, would you please share your experiences and feelings from this perspective?

Prof. Ray : It has been a great opportunity and pleasure for me to be the Head of the Department of Information Technology of Silicon Institute of Technology, Bhubaneswar since 2011. Most of the alumni of this department are doing excellent work in their place of work. Several alumni from here have completed their Masters Degree from world class Institutes. I am delighted with the achievement of our students.

Disha : What views do you have regarding the performance of the students in this year's placement drive?

Prof. Ray : The students of our Institute have done well both in the on-campus and off-campus placement drives in this academic session. More than ninety percent of the students from the Department of IT have been placed by different software companies with good packages. One of the students from IT named Subhashree Praharaj was selected by Amazon with a package of 11lakhs per annum.

Disha : Currently you are in charge of the Anti-ragging committee. Silicon has been an anti-ragging campus. Sir, do you think that there should be additional measures to make this campus better?

Prof. Ray : As per the All India Council for Technical Education all the technical institutes should abide by the norms defined by the AICTE anti-ragging cell. Instead of following the norms of the AICTE we can have better environment by creating social bonding among the students. Irrespective of the year of admission, stream, and section there should be a friendly environment. Seniors should be role models for the juniors. That should be the spirit of a true Siliconite.

Disha : Apart from all your works, we have heard that you teach and help students to prepare for GATE. How do you motivate students to prepare for the same?

Prof. Ray : Every child in the world is amazing and unique. Everyone in the world can do miracles. Only thing is that they need an ignited mind to achieve that. Most of the students are not aware of the future of different career paths at the time of pursuing undergraduate course. Being a mentor I can easily identify such minds. Currently some of our alumni are doing excellent jobs across the globe. GATE is not the only path through which one can proceed. There are several emerging Competitive Coding forums. One can participate, learn, explore, compete and excel.

Disha : What are the changes that you have found in the campus over the years in Silicon?

Prof. Ray : More people prefer to be busy with their mobile rather to have some social interaction. It is a mania which has spread over society. Mobile is one of the most useful things in the world, but it is used in an improper manner in most of the public places. There is hardly any interaction among the people. So, it would be a global social network with isolated individuals.

Disha : Sir, it was a great pleasure interacting with you.

Prof. Ray : It was great to be interviewed for *SLATE* again.

Sleep, Sleep Deprivation and Mental Health

"Sleep is the golden chain that ties health and our bodies together"

– Thomas Dekker

Sleep is one of the basic physiological needs of human-beings but it occupies an underrated status in everyday life. One individual spends one third of her/his life in sleeping. Proper, adequate and quality sleep is vital for restoration and renewal of the bodily functions on the contrary, people take the importance of sleep in a very negligible way and in our culture, falling asleep or sleeping is always associated with laziness and unproductive process.

In a changing lifestyle the most affected domain is sleep and it leads to sleep deprivation. As per a survey conducted by Godrej Interio (2019), over 93% of Indians are sleep deprived and Mumbai tops the rank in India.

Sleep and Mental health are strongly allied as adequate sleep is positively correlated with good Mental health. Sleep deprivation negatively affects the Mental health and Well-being. Average teenagers should have 9 hours of sleep and the youth should have 7 to 8 hours of sleep. But in reality majority of them sleep less than 4 to 5 hours. The dangerous effects cited in "Journal of Youth and Adolescence" as hour of lost sleep could be linked to a disturbing rise in mental health statistics. Sleep deprived teens compared to teens with adequate sleep show the following:

- 38 percent increase in feeling sad and hopelessness
- 42 percent increase in suicidal thoughts
- 58 percent increase in suicide attempts
- 23 percent increase in substance abuse

Sleep deprivation trend is spreading wild and is unchecked among our upcoming generation, adolescents and the youth. The possible root causes of sleep deprivation are multiple and these need to be recognized like, biological changes, sudden explosion of technology, excessive screen time, exposure to blue light, changing lifestyle and social attitude, continuous and constant pressure etc.

Effects of sleep deprivation can be fatal and it affects mental health and may lead to

- Depression
- Anxiety
- Poor judgment and decision making
- Attention deficit
- Memory impairment
- Moodiness and aggression
- Lack of enthusiasm
- Reduced academic performance
- Increased feeling of tiredness, drowsy and dullness
- Poor emotional balance

Some suggested tips for a good sleep are:

- Maintain a fixed time for sleep irrespective of weekdays or weekends.
- Use bed only for the purpose of sleep not for a place to study, think or eat etc.
- Stop worrying about things by lying in bed, rather get out of the bed and plan a to do list in the situation.
- Avoid television, mobile phone or any electronic gadgets before sleeping which will delay the time for falling asleep.
- Do not sleep in day time and do regular physical exercise.
- Avoid drinks that contain caffeine (e.g. tea, coffee or soft drinks) at bed time.
- Maintain a comfortable sleep environment, including a comfortable temperature.

Besides the above suggestions the most important thing is the realization of importance of sleep in one's life. To create the awareness dedicated health practitioners have initiated "World Sleep Day" and the main purpose is to maintain "Sleep Hygiene" and to get a good night's sleep. The slogan of World Sleep Day-2019 is "Healthy Sleep Healthy Aging". Let's value sleep and value our health.

Dr. Saswati Jena
Counselling Psychologist
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Dr. Erik Jacquemyn, the first Belgian to receive the prestigious "UNESCO Kalinga Prize" for Popularization of Science in the year 2017 at Jordan is a man of repute and expertise in the field of science, and a living legend of the rarest order. His interest in the field of science and interactive museums made him propose the idea of Technopolis, a Flemish Science Center where people of all age groups can actively explore science and technology.

He has visited several science centers and museums globally and provides consultation internationally on start-up of these centers. His strategies in renewing, rethinking and developing such centers have created great awareness among people about the importance of science. He has also had the distinction organizing large events such as Flanders Technology International: the technology exhibition which attracted more than 1,00,000 visitors in a single week's time in the 80s and 90s during the Flemish Science week and the Science Festival. He also received great international recognition for organizing and chairing the first ever Science Center World Summit held in Mechelen, Belgium, in 2014.

About the award: The Kalinga Prize was established in 1951 by UNESCO with a generous grant from Late Shri Biju Patnaik, Founder President of the Kalinga Foundation Trust. First awarded in 1952, the Kalinga Prize is presented annually by UNESCO to a person or persons, who have made outstanding contribution to the interpretation of science and technology to the general public. The Kalinga Prize is regarded as a prestigious international recognition for outstanding science popularisation work.

He was on his second visit to India when he was invited to Silicon on 27th November 2019 to share his ideas about Popularization of Science and the SLATE students' team had the opportunity to interview him.

In his interview when asked about his concerns in the area of sustainable development he says, that it is a real life challenge which is not only for India but for the entire world. But there are a lot of possibilities in which India can contribute to obtain these goals and one of them being better education.

He was highly impressed by the historical museum of Bhubaneswar on his visit to the place and he believes it is an excellent example of sustainable development as this museum does not waste anything. It reuses paper to make its models and is thus an innovative contribution towards sustainable development.

Museums are important places he says. There has been a paradigm shift in the way museums function and operate. Instead of only showcasing the models, museums are now moving towards interactive models with practical implementations, be it any field, science, art or history museums, where practical implications and interactive ways create interest among people. And it is this innovative idea of making museums interactive that became the driving force behind the idea of Technopolis. Dr Jacquemun holds this firm belief that learning becomes effective only through practical applications. Science is better learnt through implementing scientific theories in experimenting. Thus, "learning through experimenting has better retention" is what Dr. Jacquemyn has to say.

He also goes on to state that every start-up organization is built upon an idea of some bright minds working behind it trying to devise innovative solutions related to a specific problem or challenge and how it is implemented. And thus, they contribute towards a global cause. Dr. Erik Jacquemyn thus holds the view that learning of science should be done through its practical implementations and that is the need of the hour.

DBMS Workshop

The Industry Experts in DBMS subject delivered lecture to our 7th semester students on 6th & 7th July in the Lecture Theater. The Speakers had experience in database design and query building. They spoke on industry-oriented problems, industry demands; practical problems faced in the industry and frequently asked questions for interviews in DBMS.

FDP on Data Science

A two-day Faculty Development Program (FDP) on "Data Science" was organized by the Department of Computer Science & Engineering in association with the Industry Interface Cell on 13th & 14th July 2019. Mr. Sumit Mishra, Associate Vice President of Technology, Evangelist was the resource person. Faculty members and people from Industry attended the program in great numbers.

Chairman's Address on 27th July 2019

Chairman Dr. Joe Madiath addressed all staff members on 27th July 2019. Principal Prof. Jaideep Talukdar delivered the welcome address and introduced the Chairman. Dr. Debabrata Kar, Dean Research, presented a report on achievements of the academic year 2018-19. The Chairman, in his address, urged the staff members to continue their good work under Autonomy to take the Institute to the next level. Director-in-charge, Dr. Saroj Kanta Misra spoke on the appraisal process and pay revision. Dean Research, Prof. Jayashree Das, apprised the staff members on the new processes and facilities for research activity, proposed the vote of thanks and invited all staff to the lunch hosted for the occasion.

Orientation and Welcome Function 2019

The Orientation and Welcome Function for the newly admitted B. Tech. students were organized on 2nd and 3rd August 2019. The same for the MCA students were

organized on 6th August 2019. This time some new agenda were added to the agenda of the orientation program. Mr. Abhijit Sen spoke on the Needs of Industry and advised the new students to plan and prepare accordingly. Dr. Saroj Rout spoke on the career perspectives of Electronics stream.

BPUT Gold Medalists

Five students, three from 2017 passing-out batch and two from 2018 passing out batch have received Gold Medals in the 9th Convocation of BPUT which was held on 8th August 2019 at Rourkela. The students are Anmol Gupta (CSE), Salauddin Khan (EEE) and Rashmi (ECE) department of 2013-17 batch and Nikita S Kar(CSE) and Nivedita Mahapatra (ECE) department of 2014-18 batch.

FDP on Electronic Systems Design and Manufacturing using OrCAD Simulation Tools

An FDP on Electronic Systems Design and Manufacturing using OrCAD Simulation Tools was organized by the Department of ECE and AEI on 8th, 9th and 10th of August 2019. Er. Ram Gopal from Entuple Technologies, Pvt. Ltd, Bengaluru was the resource person. He conducted the training on Analog & Digital

Our mission and core values drive our culture and are the foundation of our practice. We measure each decision against these standards – Chris Hanslik

Circuits and PCB design and Prototyping which will be useful in the development of interfaces for modern-day sensors, MEMS and motion control. 28 faculty members and 7 technical staff members attended the program.

Special Talk on IPR

IQAC organized a Special Talk on "Role of IP and Technological Innovation and Transfer under Make in India and Start-up India" on 13th August 2019 at 2:30 pm. Dr. B. K. Sahu, Head & Regional Manager of NRDC-Intellectual Property Facilitation Centre (IPFC), Visakhapatnam, delivered the talk. Dr. Sahu emphasized on innovations, particularly by students and the necessity to patent those. There were around 30 participants including several students.

Independence Day Celebration

Independence Day was celebrated on 15th August 2019. Prof. Jaideep Talukdar, the Principal hoisted the National Flag followed by the National Anthem sung by all present. Prof. Talukdar addressed the gathering. He counted the biggest achievements of India since independence and emphasized on the responsibilities of the present young generation to carry forward the good work. A small musical program was presented by the music club followed by a skit on Kashmir by the

Theater Club. The programs were well appreciated by the audience.

FDP on Genomics, 5G Comm, SDN, Networking by Scientists from TCS

An FDP was conducted by CSE Department on 21st August 2019 at the Remote Center. The Topic of the presentation was "Genomics, 5G Communication, SDN & Networking". The resource persons were Dr. Sadhana Rana, Scientist, Research and Innovation Lab TCS, Mr. Swatantra Pradhan, Research and Innovation Lab, TCS and Mr. Sumanta Patro, Research and Innovation Lab, TCS. More than 30 faculty members from different departments attended the FDP. Dr. Rana and Mr. Pradhan presented their talk on the basics of Genomics and threw light on the current researches that are going on in the relevant field. Mr. Patro presented a talk on 5G Communication and various challenges associated with it.

Integrity Pledge

The Team from NALCO conducted the Integrity Pledge on 28th August 2019. More than 300 students participated in the program and took the Integrity Pledge as well as the e-integrity pledge which is

envisaged by Central Vigilance Commission (CVC). Prof. Jaideep Talukdar delivered the welcome address and Er. Amiya Patnaik, General Manager (HR) and Er. Subrat Mohanty, General Manager (System), spoke on honesty and integrity.

Silicon wins the ISTE Best Student Award

Mr. Akash Das, 4th year, Computer Science and Engineering received the ISTE best student award for this year on 31st Aug. 2019. He received the award on the occasion of ISTE 22nd student convention which was held in GEC Bhubaneswar in the presence of Dr. S.M. Ali, Chairman ISTE Odhisha section, IMMT director and Dr. Khirod Rout, Secretary of ISTE Odhisha section.

Foundation Day Lecture
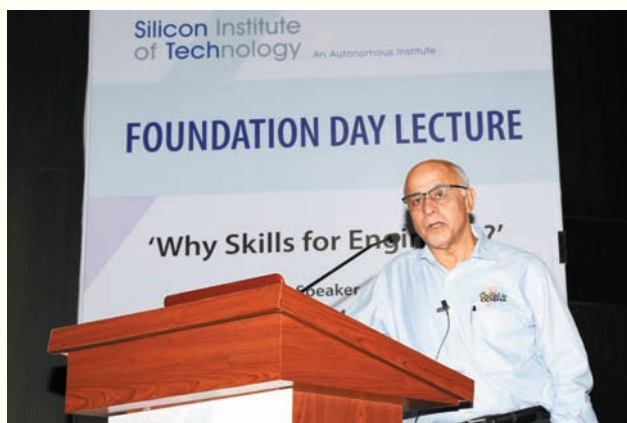
The Foundation Day was observed on 10th September 2019. This year Shri Subroto Bagchi, Chairman, Odisha Skill Development Authority (Founding Member of Mindtree) was the speaker for the Foundation Day Lecture. He spoke on innovation with some beautiful examples and case studies. Prof. Jaideep Talukdar delivered the welcome address.

Silicon Awarded for Best Performing Institute Innovation Council

Silicon Institute of Technology, Bhubaneswar, received the certificate and trophy for the Best Performing Institute Innovation Council from East Zone for the year 2018-19. This recognition is from MHRD. Silicon is among the three Institutes from East Zone and the only Institute from Odisha to receive the award. The award was presented in the "First Annual Innovation Festival of MHRD's Innovation Cell" on 11th September 2019 at AICTE Headquarters, New Delhi.

TEDx SITB

For the first time in Silicon, the TEDx SITB chapter organized an event "Unbox Your Minds" under the TEDx banner (x=independently organized TED event) on 15th September 2019. Mrs. Snigdha Panigrahi, LLM (Human Rights) and Member of Woman Commission delivered the keynote address. She started with ideals followed by modern-day youngsters and their benefits and side effects. She also suggested her ideals of how a woman should think and run for her future and a good career rather than adapting to modern-day lifestyles and making unnecessary habits in their life. After this, various competitions, such as Painting, Photography, Writing, Coding, Singing and Dancing, Stand-up Comedy, Mimicry, Instrument Maestro, and Themed Speak up were held. In between the performances, the second speaker Mr. Siddharth Bhatter, CEO of Karkhana Makerspace, spoke about technology at hand and how to grow with it rather than going the conventional way of writing assignments and having a regular life in college. He also spoke about his entrepreneurial career which was very motivational. A total of 120 students

(mostly from Silicon with a few from outside) attended the program. The event had a total of 32 performers out of which 20 were awarded for their performance. The event was coordinated by Mr. Aruni Nayak, Asst. Prof (BSH) and organized by two students Mr. Swaraj Kumar Mohapatra and Ms. Ananya Pradhan, both from 5th Semester CSE.

Award from Evergreen Forum

This year the Evergreen Forum organized the Odisha Technical Conclave 2019 on 15th September 2019, the Engineers' Day at Jayadev Bhawan. Two students team from Silicon participated in the Model Exhibition in the forenoon. Mr. Akash Das from 4th year CSE participated as a panelist in the Panel discussion on "Role of Engineers on an Automated World". In the evening, during the award-giving function Silicon received the "Best Technical Institute Award". Dr. Gitisudha Giri received the Best Teacher Award.

Talk by Seshadri Venkatesan

Seshadri Venkatesan, Lieutenant (ex-Indian Navy), CEO, Director Operations & Certified Mountaineering Instructor, NALS Outdoors India Private Limited delivered a motivational talk to students on 19th September 2019. There were around 250 students. The talk was inspiring. Mr. Seshadri talked about how discipline is important in every sphere of life.

CodeClash 2019

On 21st September 2019, ISTE Silicon Students' Chapter in association with CodeChef hosted a coding event CodeClash. The basic motto of this event was to inculcate the coding culture in the college and to make students familiar with the placement pattern coding like HackwithInfy, Codevita and Goldman Sachs. The event comprised of two rounds. Round One of this

event covered Quantitive Aptitude, Logical Reasoning, Reading Comprehension, and Technical Coding Questions. From 80 qualified students the second Round had 40 teams. Anubhav Gupta and Prayash Kumar from 4th year bagged the winner's title and Ujjal Chowdhury & Chinmay Kumar from 3rd year became the runners-up. The event was successfully completed with participation of 550 students.

Blood Donation Camp

On 24th September 2019, a blood donation camp was organized by the Red Ribbon Club and Youth Red Cross of our Institute in collaboration with Blood Bank, Capital Hospital, Bhubaneswar. Many students and staff participated in this noble work. At the end of the day, 169 units of blood had been collected by the blood bank.

NWACSP 2019

The Department of Electronics & Communication Engineering organized a 3-day National Workshop on Advanced Communications & Signal Processing (NWACSP 2019) from 27th to 29th September 2019. The workshop had informative sessions on the latest advancements in communication and signal

processing domain including some hands-on sessions. Dr. V. M. Rohokale, SITS, Mumbai, Dr. P. Kanungo, CVRCE, Bhubaneswar, Er. Saraju Prasad Padhy, BSNL, Gangtok, Dr. Debi Prasad Das, IMMT, Bhubaneswar, Dr. N. B. Puhan, IIT, Bhubaneswar, Dr. R. P. Panda, VSSUT, Burla, Er. Saroj Panigrahi, Vodafone, Bhubaneswar, and Dr. Sananda Kumar, KIIT, Bhubaneswar were among the resource persons. A total of 133 participants including 34 faculty members (including 05 external) and 99 students participated in the workshop.

Fundola

Fundola, the event of Fun was organized by ZEAL (Zenesis of Enthusiasm about Life) on 21st September 2019. The objective of this event was to collect funds for helping the orphans, physically challenged and low privileged home children. There was an orientation program of ZEAL Club for all the freshmen. Different stalls for food items, Art & Craft items and fun & Game events were arranged to sale and raise the funds for the upcoming social service of the club.

Plastic Waste Cleanliness Drive

The Silicon Green Club organized a Plastic Waste Cleanliness Drive on 2nd October 2019 inside the college campus. Various students along with SGC volunteers carried out this event in the presence of Principal Dr. Jaideep Talukdar and Mr. Subrat Kumar Sahu FC, SGC.

Dr. Jaya Krushna Panigrahi, Secretary OES (Odisha Environmental Society) was Invited to address the topic "Urban Waste Management, A Greater Challenge Ahead" on 16th October at our video conference hall. Many students, faculty members enjoyed this program.

An essay competition was conducted on the Topic "Plastics: Waste or Wealth" on 19th October at our college. Many Students participated in this event where the 1st & 2nd prize were won by Kirti Srivastava of 3rd year & Harsh Raj Singh of 2nd year respectively.

CODEGIG by CSI- Silicon Student Branch

CODEGIG (C programming competition) was conducted by CSI-Silicon Student Branch on the 19th of October, 2019 on the campus for all the students of B. Tech. and MCA. 212 students participated in the first round of the event, which was an MCQ based test. 20 students shortlisted for the second round which was a programming round of 2 hours duration. The 1st Prize was won by Debashis Jena, 5th. Sem. B.Tech and 2nd Prize awarded to Chinmay Kumar, 5th. Sem. B.tech. It was a great success with overwhelming student participation.

INDIA QUIZ

The Silicon QUIZ club organized INDIA QUIZ on 19th October 2019. There were around 40 participants in the event. Sanath Kumar Swain (SIC-170610072) and Ashutosh Mallik (SIC-170610015) received the first prize. Siddhant Sahoo (SIC-190410245) and Pratik Das (SIC-190310441) were the 1st runners-up and Satyaprakash Das (SIC-180610116) and Anmol Ray (SIC- 180310395) were awarded as the 2nd runners-up.

TEQIP-III Sponsored Five Day STTP on "Industrial Automation and Control for Industry 4.0"

A Short-term Training Program on "Management Issues of Laboratory and Workshop Class" was organized from 4th to 8th November 2019. The program was conducted by NITTTR, Kolkata in a remote mode. There were lectures and interactive sessions that were held in our video conferencing hall. Thirty-seven technical/laboratory staff and twenty faculty members participated in the program. Dr. D. Bose, NITTTR, Kolkata was the speaker and

Maturity is learning to walk away from people and situations that threaten your peace of mind, self-respect, values, morals or self-worth – Anonymous

Programme Coordinator and the Event Coordinators were Dr. Debi Prasad Datta, Subrat Kumar Sahu & Dr. Manoranjan Behera of Silicon Institute of Technology, Bhubaneswar.

Workshop on IoT

The Department of CSE organized a 10-day Hands on Workshop on Internet of Things (IoT) in collaboration with *LectureNotes* like last year. There were 36 students participating in the workshop. This time the content was modified and the students experienced a more real-time project of their own. The program started on 29th October and continued till 8th of November 2019 at training hall-1. The resource persons were from *LectureNotes*.

Induction Program of Scholars' Club

The Induction Program for Scholars' Club was held on 9th November 2019 in the Presentation Hall. Members from the 3rd and 4th year were felicitated during the program. The Principal, Deans and senior faculty members spoke on the occasion motivating the members.

SPENT QUIZ

The Silicon QUIZ Club organized the SPENT QUIZ on 9th November 2019. Sidhant Sahoo (ECE,1st year) and Pratik Das (CSE, 1st year) were the winners. Sukanta Pal (CSE, 1st year) and Swayam Samantaroy (EEE, 1st year) became the 1st runners-up. While Satyaprakash Das (EEE, 2nd year) and Anmol Ray (CSE, 2nd year) received the 2nd runners-up prize.

First Step to World Skills Competition 2021

Mr. Shashidhara Hiremat, GM Training for OSDA (Odisha Skill Development Authority), interacted with the students and faculty members of our institute on 15th November in connection with possible competitive events for our students. Particularly he highlighted the prospects of the World Skills Competition 2021 at Shanghai, the eligibility criteria and different stages to reach there. There were 50 student participants and some faculty members mostly from the IIC.

Achievements in Vikram Sarabhai Centenary Celebrations

Satish Dhawan Space Centre SHAR (SDSC SHAR) and Indian Space Research Organisation (ISRO) organized a debate/elocution competition as a part of "Vikram Sarabhai Centenary Celebrations (VSCC)" from 12th August 2019 to 12th August 2020. The event was organized on 19th November 2019 at SOA University, Bhubaneswar. Nine students from Silicon participated in the event and five of them won prizes. Sweta Santoshi (3rd year) and Arin Pattanaik (1st year) got the 1st Prize. Subha Snigdha (3rd year) and Prabhudatta Mishra (1st year) were bestowed the 2nd Prize. Swaraj Baral (1st year) won the 3rd Prize in the event.

Paper Dress Design Competition

The Creative Club of Silicon organized the Paper Dress Design competition on 23rd November 2019. There were seven teams in the competition. Each team designed a dress made of papers like chart papers, newspapers, etc. for their model. The 1st prize was won by the team Ananya Satapathy, Srustirani Das and Pratyusha Prusty, 2nd prize was awarded to the team Ananya Satapathy, Deepika Mohapatra and Saanvi S. Sahoo, 3rd prize given to the team, Ankush Mohanty, Pragati Jha and Rahul.

Achievements of Faculty Members

The ISTE Odisha Section Search Committee selected Ms. Monorama Swain, Sr. Assistant Professor in ECE, for felicitation for the year 2019 in honor of distinguished contribution in the area of Technical Education and development of ISTE activities in the state of Odisha. The felicitation was done on 7th

When values, thoughts, feelings, and actions are in alignment, A person becomes focused and character is strengthened – John C. Maxwell

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December 2019 in the 22nd ISTE Annual Faculties Convention held at NIST, Berhampur.

Special Talk by Dr. Erik Jacquemyn

UNESCO Kalinga Prize Laureate Mr. Erik Jacquemyn from Belgium delivered a scientific talk on "Popularization of Science" on 27th November 2019. It was an interesting and motivating talk for all. There were close to 300 audiences including 50 students from DAV Public School, Chandrasekharpur and 30 students from FBS. The program was coordinated by the Kalinga Foundation Trust. Dr. Jacquemyn had been felicitated with the prize on 26th November at the Institute of Physics.

An Interaction with TCS Personnel

TCS conducted two parallel programmes on 27th November 2019 afternoon. A student interaction program where all students from the 3rd semester were addressed by Mr. Partha Sarkar, Academic Relation Manager, Eastern Region from TCS and a Faculty Development Program where Dr. Hemant Rath from TCS Research and Innovation Team spoke on 5G Communication, SDN, Networking and IoT to faculty members. Nearly 400 students attended the student's program while most of the faculty members attended the FDP.

Expert talk on Biomedical Image Analysis using Fusion Techniques

A TEQIP-III, BPUT sponsored expert talk on "Biomedical Image Analysis using Fusion Techniques" by BPUT and VTU (Visvesvaraya Technological University, Belgaum), was held at Silicon Institute of Technology, Bhubaneswar on 28th November 2019. The event was organised by the department of CSE/IT/MCA, Silicon Institute of Technology in association with VTU, AKU. The expert talk was delivered by Dr. Shubhangi D.C., a professor at VTU. The event was conducted for students and faculty members. There were around 120 participants.

Staff Sports Meet

The Staff Sports Meet was organized by the Staff Welfare committee on 30th November 2019 on the Silicon Playground. All events were completed between 9:00 am and 1:30 pm. This year there was great participation from women. Different Race events, Shotput Throw, Musical Chair and Tug of War

were among the interesting events of the day for men and women.

Staff Cricket, VolleyBall and Badminton Tournaments

The Staff Welfare committee organised tournaments for Cricket, VolleyBall and Badminton during November and December 2019. A lot of staff participated with a great effort who explored their teamwork by playing dedicatedly for being the champion. The Master Blaster Team under the captaincy of Mr. Partha Sarathi Behera bagged the Champion's Trophy in the Staff Cricket Tournament where Super Novas became the runners-up that was led by Mr. Satish Kumar Das. In Staff volleyball tournament Mr. Sanjit Kumar Swain and his team became the winner and Sambit prasad Rana and his team became the runners-up. In Badminton (Singles) the winner and runners-up were Pravat Nayak (Estt.) and Sanjaya Mohapatra (EEE) respectively. In Badminton (Doubles) Partha Sarathi Behera (EEE) and Pravat Nayak (Estt.) were the winners and Satish Das (ECE) and Nihar Ranjan Panda (ECE) were the runners-up.

Faculty Development Program

A Faculty Development Programme (FDP) on "Leadership Development & Conflict Management" was conducted on 6th & 7th December 2019 by facilitator Mr. S Chandrasekaran (from Sundaram Learning) for 36 selected faculty members to hone their leadership skills. The sessions were interactive with several activities in between. Mr. Chandrasekaran had a one to one session with each participant and did an evaluation of the qualities of participants through a set of questionnaires. The program was coordinated by the HR Cell.

Entrepreneurship Development Program

The Silicon Entrepreneurship Development Cell conducted four weeks Entrepreneurship Development programme from 6th December 2019 to 4th January 2020 which was sponsored by NSTEDB, Govt of India. The objective of the program was to encourage the young technocrats to take entrepreneurship as their career. The interest shown by students to attend the program was quite encouraging, but 25 out of 50 applicants were shortlisted to attend the training. Renowned resource persons, including trainers, faculty members from reputed management schools, bankers and different government agencies taught the various aspects of entrepreneurship to aspiring entrepreneurs. During the program, some novel project ideas also evolved. Entrepreneurship Development Programme started with inaugural addresses by the Director Prof. Dr. Saroj Kanta Misra who emphasized upon the importance of Entrepreneurship in the present context. Dr. R. N. Behera Former Director NIC General graced as the chief guest and highlighted the present Entrepreneurship Scenario in Odisha and the emerging areas where the investment can be made. He advised the students to grab these opportunities to make enterprise success. Dr. Mahendra Prasad Agasty highlighted the objectives of the

Entrepreneurship Development Programme. The resource persons were C.R.Patnaik, Former Regional Coordinator, EDII, Ahmedabad; B.B.Mishra, Former Director, Institute of Entrepreneurship Development, Bhubaneswar; B.S.Pani, Span Resource Management, Bhubaneswar; Deepak Choudhury, Success Leaf, Bangalore, (Training Organization); Prof.T.K.Pani, Professor School of Management Studies, Ravenshaw University; Dr. S.K.Kar, Head Quality and Consultancy, CTTC, Bhubaneswar; Mr.S.K.Ratha, Assistant Director MSME-DI, Govt. of India, Cuttack; Mr. Praveen Jhajria, ETQ Global, Bangalore; Mr. J.K.Rath, Director, Mechem Pvt. Limited (Entrepreneur); Banoj Pattnaik, Chief Manager, State Bank of India, Bhubaneswar; Dr. R.N.Behera, Former Director, NIC, Govt. of India. Mr.C.R.Pattanayak started his session by conducting a game known as 'who am I 'which was meant to make students aware of their own goals, strengths and weaknesses. He also conducted the 'RingToss Game under Achievement Motivation Training(AMT). The other concepts which were discussed during the programme were on entrepreneurship, product selection and opportunity identification, steps to start SSI units, the role of support institutions (DIC, SFC), the role of banks, marketing survey, business plan, financial management, marketing management of SSI units, patent law, etc.

The participants were taken for a field visit to Mechem, Pvt.Ltd Mancheswar. The valediction function was addressed by Prof. Jayshree Das, Mr.Praveen Jhajaria and Dr. Mahendra Prasad Agasty. All the trainees were given certificates. The programme was convened by Dr. Mahendra P. Agasty.

Talk by Dr. Prabhu Goel

Dr. Prabhu Goel, a researcher, entrepreneur and businessman par excellence talked to our students and the participants of the Entrepreneurship Development Program on 10th December 2019 at 2:30 pm. Dr. Goel talked on his own story, the early struggles and recent works he is involved with. He also answered some queries from the participants. Among the participants, there were around 100 students from the 1st and 2nd year, 15 participants of the ongoing Entrepreneurship Development Program and faculty members.

Achievement of Institute Innovation Council (IIC)

The Institute Innovation Council (IIC) has been awarded one star by IIC-MHRD with a score of 24.99 out of 25 in the first quarter (August to October) of the Academic Year 2019-20. As the score in first quarter is excellent we may get top recognition for this year also.

TEDx Event at Silicon.

TEDxSITB, the TEDx unit at Silicon has organized its first major event on 15th December 2019. There were five speakers, namely, Mr. Rajesh Patil, IAS (Director Special Projects, Govt. of Odisha); Ms. Vidisha Kandoi (CEO – We The Foodies); Mr. Vijay Mahajan (CEO – Rajiv Gandhi foundation); Mr. Alok Sinha (Co-Founder – Comedy Highway) and Mr. Arif Lamba (Actor, Producer – Bombay Berlin Productions). The speakers were form diversified professions and experience that made the talks interesting. The question-answer sessions were very interactive. The program was well organized. There were 214 registered attendees.

Workshop on IoT and Sensor Embedded Applications (ISEA-2019)

The department of MCA in association with the department of CSE organized the five days workshop on IoT and Sensor Embedded Applications (ISEA-2019) from 16th December to 20th December 2019. The workshop was supported by BPUT TEQUIP-III. There were twenty different sessions (talks & hands-

on) conducted by 12 different resource persons from Industry and Academia. There were 139 registered participants, which includes six external students, eight external faculty members. From the rest 36 are faculty members from Silicon and 89 students.

Workshop on "Nanotechnology and Embedded Systems (NES – 2019)"

A 4-day TEQIP-III sponsored National Workshop on Nanotechnology and Embedded Systems (NES-2019) was conducted by the department of ECE of Silicon Institute of Technology, Bhubaneswar. Dr C. R. Tripathy, VC, BPUT graced the occasion as the Chief Guest for the Inaugural function. There were 16 sessions including hands-on which were conducted by eminent resource persons from IIT Kanpur, IIT Rourkee, IIT Kharagpur,Tufts University, Synopsys, ST Microelectronics, Sevya, VLSI System Design, VLSI Expert Pvt. Ltd, Kalyani Government Engineering College, MAKAUT and MS Engineering College.

CDOS-2019

A 2-day workshop titled "Connecting the Dots in and around the OS (CDOS-2019)" was organized by the department of CSE from 27th to 28th December 2019. The workshop was focused only on the core aspect of the Operating System. Dr. Debadatta Mishra, IIT

Kanpur, Mr. Manoj Kumar Pandia, STL, Bhubaneswar, Dr. Girija Prasad Mohapatra, TCS, Bhubaneswar and Ms. Amrita Deo, Consultant were among the notable speakers of the event. It was coordinated by Dr. Satyananda Champati Rai, Hod, IT.

Alumni Meet

The 11th Alumni Meet was organised by the college on 27th December 2019. Around 200 passed out, students joined to meet Silicon and their friend. The program

started on an auspicious note by the watering of a plant by the dignitaries. There was a welcome Odissi dance performed by artists from Om Kalinga Parishad under the Choreography of Guru Rashmi Mishra. There were performances on songs, dance and band by Siliconintes. The ambiance of the chilly winter night got excited with the bonfire and with serving of delicious food. The event closes with the vote of thanks by the Secretary-General, Student Council.

Achievement of Silicon Football Team

The Silicon Football Team championed at Prala Maharaja Engineering College in their Inter College Sports Carnival. The team members were Prince Panda, Aurojit Mishra, Aditya Paul, Anewsh Rath, Madhaba Chandra Behera, Rohan Panda, Souvic Dey, Partha Sarathi Padhi, Priyadarshan Mohapatra, Amit Patro, Siba Shankar Panda, Debashis Pradhan, Yash Agrawal, Summit Vasant Patil, and Sayed Abdul.

DR. SARAJU PRASAD MOHANTY

When knowledge meets wisdom, a genius is born, and so is the case with Dr. Saraju Prasad Mohanty: a man known for his extraordinary contributions in the field of Computer Science. An American professor from the Department of Computer Science and Engineering, and the director of the Smart Electronic Systems Laboratory, at the University of North Texas in Denton, Texas, Dr. Mohanty has made his mark with his research and his insights into the recent developments in the areas of latest and smart technologies.

Currently working on Smart electronics systems, Dr Mohanty says, "Basically, this is a system which comprises an integrated model i.e. artificial intelligence that consumes minimum power and is completely secured. In a nutshell it is basically ESR where E as in energy, S as in security and R as in response. The response is all about artificial intelligence (AI) and the different ways of data handling and analyzing it. For example, a smart car automatically senses an obstruction and applies brake for the same".

Thinking much ahead of his time when Dr. Mohanty shares his views about the nature of work that the next generation should pursue, he says, "As this is a period of Cutting Edge Research" people are working on two broad aspects, first being AI and second is security. For smart systems AI is definitely required but along with that, security is also an important aspect to work upon. But people can do their research on a various other aspects too: like smart grid, smart car, smart health care, smart transportation etc. which are in themselves a big research domain".

Talking about the Indian government flagship projects for smart cities, Dr. Mohanty says that the Indian government is working upon this and is funding the cities at various phases. "Though this is indeed very challenging because the cities are already built up, and introducing new technology to it is difficult".

Dr. Mohanty maintains that a city is smart if it has at least one automatic feature like AI, smart health care, smart parking, smart transportation, etc. which should have proper design and is cost effective. And as for India he says it has improved a lot but still has much more to add to its scales. India has still not scaled its heights in the area of E-health (electronic health). "E-health is when the patient does not have to carry their previous reports and medical details. Where the sequence is E-health (electronic health), M-health (Mobile health), C-health (connected health) and S-health (smart health) (from bottom to top)", says Dr. Mohanty.

Regarding his journey from India to Texas Dr. Mohanty says he never had any specific plan to settle down in USA. After doing his Masters and PhD at IISc Bangalore he went to USA to pursue his PhD. He was always interested to work on the impact of high voltage (a voltage at 400 KV) on human body. But his roots still lie in the Indian soil which brings him back to India every now and then. He says, India has always been a rich country, a reason why it was so often invaded by several intruders. And so he looks forward to doing things that would contribute to the development of this country.

Define your priorities, know your values and believe in your purpose.
Only then can you effectively share yourself with others – Les Brown

GyanSys Technologies Recruitment

Gyansys Technologies, a global Systems Integrator and Application Management Services (AMS) provider for SAP, Salesforce, & digital platforms, visited Odisha for differential hiring and conducted a pooled campus drive for the 2020 graduating batch students from Silicon, Trident and IGIT on 30th July 2019. Silicon had eleven winners from Silicon Hills and 1 from Silicon West.

FEP for InfyTQ based Foundation Program

The Industry Interface Cell co-ordinated a Faculty Enablement Program (FEP) on InfyTQ based Foundation Module by Infosys from 12th to 19th July 2019 at Silicon. The webinar based FEP covering the foundation modules of the InfyTQ students Certification was attended by two of our eligible senior faculty members Dr. Pradyumna Kumar Tripathy and Dr. Ajay Kumar Tripathy from Computer Science Department.

HackWithInfy 2019

Silicon students from the 2020 graduating B.Tech. batch participated in the successfully completed 2nd edition of Infosys nationwide hackathon contest #HackWithInfy 2019. The hackathon comprising of 3 rounds, besides having an opportunity for top 100 participants to compete in the grand finale, also offered pre-placement Interview opportunities at Infosys with higher pay package. Silicon had following ten students who were selected for the high LPA offers:

Moitrayee Sarkar from Applied Electronics & Instrumentation branch Chandan Maharana, Md Haaris, Santosh Sahni, Tanu Priya from Computer Science and Engineering branch, Subhankar Nayak from Electrical & Electronics Abdul Hassan, Lipika Aich, Sovit Ranjan Rath, Swayamprakash Panda from Information Technology branch.

InfyTQ Certification

Akash Das from Computer Science and Engineering branch one of the students from the 2020 graduating batch appeared the upgrade test for InfyTQ conducted by Infosys on 7th August 2019 and was selected for a pre-placement interview opportunity at Infosys for a higher role with higher pay package.

AcesoCloud Recruitment

AcesoCloud, an information solution provider committed to building innovative IT solutions to save lives, visited Silicon for an exclusive on-campus differential hiring of the 2020 graduating batch B.Tech students on 5th and 6th August 2019. Out of twelve B.Tech students selected eight were from CSE and four from IT.

FSS Recruitment

Financial Software & Systems (FSS), a global leader in providing electronic payments and financial transaction processing solution and services, conducted an exclusive on-campus differential hiring drive for the 2020 graduating batch B.Tech. students on 20th August 2019 at Silicon. FSS selected ten B.Tech. students – two each from CSE & ECE and six from IT.

TCS Students Workshop

A Students Workshop for the 5th Sem. B.Tech and 3rd Sem. MCA students was conducted by the Industry Interface Cell on 21st August 2019. Mr. Jyoti Sankar Panda, Solutions Architect and Mr. Saroj Choudhury, Solutions Architect from the Digital Software & IoT Solution team at TCS were the resource persons who made a presentation on "IoT & Cloud Computing" during the interactive students Workshop. The presentation by the resource persons besides covering the fundamentals dealt with the role of Cloud computing and big data in the IoT revolution.

ValueLabs Recruitment

Value Labs, a global technology company focused on product development, data technology and digital services, visited Silicon for an exclusive on-campus differential hiring drive on 26th August 2019. Seventeen eligible students from the 2020 graduating batch were selected – seven from CSE, six from ECE, two each from EEE and IT.

First American India Recruitment

First American India Pvt Ltd (FAI), known for delivering quality software solutions in title insurance and real estate domain, visited Odisha for a pooled campus differential hiring of the 2020 graduating batch students from B.Tech and MCA. Eligible students from Silicon, Trident, VSSUT, Burla and two Govt. Engineering Colleges at Bhwanipatna and

Live your days on the positive side of life, in tune with your most treasured values.
And in each moment you'll have much to live for – Ralph Marston

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Berhampur participated in the drive held at Silicon on 30th August 2019 at Silicon. Silicon had the highest hit ratio in the drive with seven students selected – three from CSE while four from ECE.

Wipro Shared Day1 Campus Recruitment

Wipro Technologies visited Silicon on 19th and 20th September 2019 as a Shared Day 1 partner. Eligible students from the batch 2016-2020 at Silicon participated in the Wipro Shared on-campus recruitment drive. We had finally 87 from Silicon Hill and 12 from Silicon West selected from 103 Silicon students (both campus) who faced the Final interviews.

Spikewell India Pvt Ltd Recruitment

Spikewell India Pvt Ltd, a start-up product development venture working in health care domain using Data Science and Big Data technologies, visited Silicon for an exclusive on-line recruitment of 2020 graduating batch B.Tech and MCA students. The Spikewell hiring conducted on 21st September 2019 selected four students from Silicon (3 from Silicon Hills and 1 from Silicon West) for permanent job offers and five from Silicon Hills for Internship.

SAP Labs Scholar@SAP 2020 Hiring

SAP Labs India opened up Scholar@SAP as a career option as a part of their 2020 early talent hiring. The Scholar@SAP 2020 hiring was conducted in Odisha for selected few colleges including Silicon. For the hiring program that allows the selected candidates 2 years paid Internship at SAP with an M.Tech in Software Engineering at BITS, Pilani, eligible career students from Silicon appeared the on-line test at Silicon on 25th September 2019 and interviews on 27th September 2019. One candidate from Silicon was selected.

Infosys Recruitment Drive

Infosys visited Silicon on 1st and 2nd October 2019 as Premiere Day–1 Sharing recruiter. Eligible students from the batch 2016-2020 at Silicon participated in the Infosys Shared on-campus recruitment drive. We had 129 (110 from Silicon Hills and 19 from Silicon West) selected from 148 Silicon students (both campus) who faced the Final interviews.

Mindtree Recruitment Drive

Mindtree, a leading company offering customized solutions in areas like e-commerce, mobile application, digital transformation, data analytics, ERP etc., visited Silicon on 4th and 5th October 2019 to recruit 2020 graduating batch students. The final interviews for the short-listed students from the on-line test held on 4th October were held at Silicon on 5th October 2019. Eight Mindtree Minds were selected from Silicon Hills.

Atmecs Recruitment Drive

Atmecs, developing IT solutions in AI/ML, AR/VR, Enterprise Analytics, Mobile Computing etc., conducted an off-campus drive for 2020 graduating students from selected engineering colleges at ITER on 19th October 2019. Out of 45 eligible students from Silicon who participated in the drive one from Silicon Hills was selected.

Cognizant Recruitment Drive

Cognizant Technologies visited Odisha for a Pooled Campus Drive at KIIT for eligible career students from 2020 graduating batch students of fourteen engineering colleges in Odisha. The Web proctored on-line tests were conducted between 28th to 29th September 2019 while the Technical and HR interviews on 20th and 21st October 2019. Nineteen students from Silicon were selected in the drive for the high LPA offer. Eighteen from Silicon Hills and one from Silicon West. Silicon had the second highest hit ratio amongst all the participating colleges.

Mindfire Recruitment Drive

Mindfire, a home-grown leading software product development house from Odisha with branches in India and abroad, conducted a job-cum-internship drive for the 2020 graduating batch B.Tech. and MCA students from Silicon on 19th, 22nd, 29th and 30th October 2019. Eleven students from Silicon Hills were selected for the internship cum job offer with high LPA.

Centroxy Recruitment Drive

Centroxy, an IT company specialising in Application development, Application maintenance, Data warehouse, Business Intelligence and Business Analytics, visited Silicon on 1st November 2019 for an exclusive on-campus recruitment of 2020 graduating batch students. Seven students from Silicon Hills were selected, five with permanent offers

You don't have to live a lie. Living a lie will mess you up. It will send you into depression. It will warp your values – Gilbert Baker

and two as interns.

Amazon Recruitment Drive

Amazon, a technology house focusing on e-commerce, cloud computing, digital technology and artificial intelligence, conducted a Pooled Internship hiring for the 2020 graduating batch CS, IT and MCA students of selected ten engineering colleges in Odisha. While the on-line tests were conducted in the respective participating colleges on 24th October 2019. The final Technical and HR interviews at KIIT on 4th November 2019. Out of twelve short-listed students from Silicon Hills for the interviews, three students were selected one from IT and two from CSE.

Nexright Recruitment Drive

Nexright Solutions, a leading Integration and Artificial Intelligence specialist across Australia and Newzealand, visited Silicon for an exclusive on-campus drive on 8th November 2019. Total five 2020 graduating batch students from Silicon Hills were selected – three with permanent offers and two as interns.

NIIT Technologies Recruitment

NIIT Technologies visited Odisha for a pooled campus recruitment drive of 2020 graduating batch students from CS, IT, ECE and MCA. While the on-line test was conducted on 7th November in the respective participating colleges, final interviews were conducted on 11th November 2019 at KIIT. One student from Silicon Hills was selected.

TCS CodeVita Season 8 Global Coding Contest

Silicon students participated in the TCS CodeVita Season 8 Global Coding Contest Round–1 and Round–2 held at Silicon on 28th June 2019 and 9th November 2019. We have six 2020 graduating batch students from Silicon Hills who have global ranks within top 500 qualifiers from CodeVita Season 8 Round–2. CodeVita, besides deciding top three prize winners from top twenty-five global rank holders in Round 2, gives a chance for top coders for exciting career with TCS.

SAP Labs India Early Talent Hiring

SAP Labs India, SAP's largest R&D center outside its headquarters in Germany and a part of connected lab network of 20 Labs in 17 countries, visited Odisha for a pooled early talent Scholar@SAP hiring from the 2020 graduating batch on 25th September 2019. One (1) student from Silicon was selected for the Scholar@SAP program with an opportunity for M.Tech. in Software Engineering from BITS, Pilani while being a part of an internationally-reputed organisation like SAP.

Industry Talk and FDP by TCS

An Industry Talk for the 3rd semester B.Tech and MCA students and a Faculty Development Program for the Silicon faculty members was conducted by the Industry Interface Cell on 27th November 2019.

Mr. Partha Sarkar, Academic Relationship Manager from TCS addressed the students during the interactive Industry Talk session. Mr. Partha, while addressing the students on "Industry Demand in Technology Space", advised the students to cultivate knowledge on the fast changing technologies demanded by the Indian industries, develop out-of-box innovative ideas, entrepreneurial and intrapreneurial skills, and work on real-life collaborative projects under guidance of industry experts.

Dr. Hemant Rath, a Senior Scientist at TCS Research & Innovation Lab made a presentation to the faculty members from all the departments during the FDP on "5G Communication, SDN, Networking & IoT". Dr. Hemant talked about how 5G technology enables communication between and interconnection as well as controlling of machines, objects and devices, how SDN is redefining the network architecture to support the requirements of the 5G ecosystem and how IoT will lead to a revolutionary change in the devices.

IBM Recruitment Drive

IBM Global Business Services (IBM-GBS) conducted a pooled campus recruitment drive for the 2020 graduating batch B.Tech. (CS/IT, ECE, EE/EEE & AEI) and MCA students from engineering colleges affiliated to Biju Patnaik University of Technology (BPUT), Odisha on 1st and 2nd December 2019. Amongst the twelve (12) participating colleges, Silicon had the highest hit ratio. Out of total forty three (43) students selected in the pooled campus drive, eleven are from Silicon.

Industry Talk

The Industry Interface Cell organised an Industry talk

I never wanted to be on any billionaires list. I never define myself by net worth.
I always try to define myself by my values – Howard Schultz

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session on 11th December 2019 where Mr. Rajib Mishra, an alumnus from the 2010 graduating batch currently working with Capgemini in USA as a Senior Consultant in Micro Strategy and Business Intelligence addressed the 2021 graduating students. Mr. Rajib, besides talking on the demand for some cutting edge technologies like Cloud Computing, Data Science and Data Analytics via BI Tools, advised the students on the importance of going for higher technical studies over jobs immediately after their degree course.

Aptus Data Labs Recruitment Drive

Aptus Data Labs, a Big Data and Advanced Analytics company providing consulting and project delivery services across different industries like Healthcare, Retail, BFSI, Manufacturing and Supply Chain conducted an exclusive on-campus recruitment on 19th December 2019 for the 2020 graduating batch career B.Tech (AEI, CS, IT, ECE and EEE) students. Four (4) students were selected as full time employees with internship offers.

Sevya Multimedia Recruitment Drive

Sevya Multimedia, a technology consulting company which develops scalable products and solutions for Web, Mobile and Enterprise, visited Silicon on 23rd December 2019 to recruit students from 2020 graduating batch AEI, ECE and CS/IT branches. Six (6) students, one from AEI, one from IT and four from ECE, were selected for VLSI and Software job roles.

InfyTQ Awareness Session

The Industry Interface Cell conducted a student Awareness Session for the 2021 graduating batch students on the job-linked, industry readiness Infosys Certification process InfyTQ to start in February 2020. During the highly interactive session conducted on 24th December 2019, Mr. Rajat Rawat, Associate Lead from the Infosys Talent Acquisition Team, made a presentation on the Infosys learning and engagement platform InfyTQ Certification and its job-linked benefits like on-the-spot job interview opportunity for entry level as well as niche market technical roles at Infosys with differential compensation for the Certified students.

MCA Recruitment Drives

Start-up companies like Searching Yard Software, Rewoke and Silicon Tech Lab visited Silicon during December for exclusive recruitment from 2020 graduating MCAs and made Internship-cum-job offers to seven (7) MCA students.

Other Recruitment Drives

Medha Servo Drives, a Core company and Black Knight Inc, a leading financial data analytics solution provider recruited one (1) student each from 2020 graduating B.Tech batch during December.

Higher Studies

One of our students, Ms K V D Pallavi, from the 2020 graduating batch is selected for MS in Finance Program at University of Rochester's Simon Business School, New York beginning Pre-Fall 2020 with an internship at Ernst & Young LLP before the MS program starts.

Internship in VLSI

One of our students, Ms. Subhra Sutapa Mohapatra from the 2020 graduating batch ECE branch is selected for internship at STMicroelectronics, one of the world's largest semiconductor companies and a global leader in providing semiconductor solutions.

Notification

Submission of different feature articles for SLATE and Digital Digest can be made through soft copy and sent to the e-mail ID: publication@silicon.ac.in. Students' Corner, Stories, Poems, Short Essay, Compilation of Interesting Facts, Scanned copies of Sketches or Paintings can be sent for SLATE. For Digital Digest articles on DD Features, Profile of a Scientist, Space Technology and Environment Awareness Concepts are invited.

silicon
...beyond teaching

God is on Leave

God is on leave today…
Neither ring the bell of the temple
Nor step on the mosque or go to church
Rather…
Go to the Park…
Spend some valuable time with the
Isolated old man... sitting in the corner chair
discarded by his children.
Go… and drop a few coins in the pot
of the deprived beggar
sitting over the railway station/bus stop.
Forward some kind helping hand…
To the people…
suffering in the hospital varandah.
console to the family members
Whose near and dear ones have passed away.
Because…
God is on leave today.

The educated trained youth is
Puzzled at the juncture of his life...
If possible ..help him get his livelihood.
The boy washing the utensils… and
Cleaning the tables of the hotel…Leaving the school
to earn livelihood for his poor family..
Help him join his school again.

Give few good but unused cloths from your almirah..
To the bare old women with torn cloths.
Help the challenged man to cross the road.
The people in need of casualty from road accident…
Help them to reach hospital….
Because God is on Leave
Don't Ring The Bell
Subhasmita Patel
MCA, 2nd Sem.

The Youth

We are the star lit kids;
The galaxies of abstraction.
The future you dream of;
We are the young generation.

We are hurt and broken,
But we'll never perish.
We are the today and tomorrow.
We are the lives to cherish.

We are the peace;
The warriors as well.
Don't try to chain us;
We are born to rebel.

We are the underdogs;
Strong and sublime.
We, together as one,
Can conquer space and time.

We are builders of tomorrow;
Powerful, but benign.
We are descendants of sun.
We are born to shine.
Sibayanee Sahoo
CSE, 1st Sem.

Phrases Lost

Underneath the blanket of darkness
sheltered by the stars,
on that cold winter eve,
while taking each step forward

with you in the safest cocoon
heart pulsed faster.
Faster than the fading footprints
carved on the earth
With moist of dew and fog painted,
on the lane where I walked
to reach you.

Beats,
didn't play rhythms anew but one,
I heard once in some while;
while you calmed the seas of chaos that
ravaged my body
with a touch so mere
yet,
much like a 'spark';
while I perspired with sighs of agony
upon being touched
by the warmth of your breath,
with affection
of which am still in need.

And as I was steps away from you
dissipating sweats of anxiety
There you were, miles closer
for me waiting,
with eyes impatient.
Little did I know,
chisels of unrequited love
which bruised me so hard
would shape an eve
too fine to be cherished

as a piece of antique in the home
of memories which we did build.

Eyes met,
conspiring against every odd.
Much like the gleaming moon
arriving early
to catch hold of glimpses
of the setting sun's crimson blush.

But the smile which you own
and I was indebted to,
to plough the barren lands
of happiness fertile
left unpaid, like always.
For the message of love
to which my heart has rehearsed long
was undelivered
somewhere in between the fringes
of words and phrases lost.

Saswati Rath
ECE, 3ʳᵈ Sem.

Why Human Life?

One of the famous scientists, Albert Einstein said "Science without religion is blind and religion without science is lame." We all are engaged in the bodily comfort, far away from the real education, reality, truth, and from the real aim and objectives. The basic teaching should be that we can never be happy by our bodily comfort until and unless we give comfort or service to the soul and he is the real intelligent person who gives service to the supreme personality or the super soul, or whom we call the god. This is neither a mental speculation nor an intellectual adjustment. This is complete science for which following examples are given.

Firstly, take the example of the bus, its driver and its owner. Here we compare the bus, the driver and the owner with the body, the soul and the super soul respectively. Some people will appreciate the condition and then get up on the bus; some are there who will appreciate the driver for his work for which

You can't do anything about the length of your life, but you can do
something about its width and depth – H. L. Mencken

the bus is running perfectly. But a real man would appreciate the owner who maintains both the bus and the driver properly.

Secondly, you think of a person who is mentally unhappy or is suffering from fever and at that particular time if you tell him to wear a new dress, then will he be happy or is satisfied? No, because in a diseased condition what does it imply? It simply implies that we do not have any spiritual knowledge (the knowledge of soul), so just imagine by giving comforts to the body, how can we be happy?

Thirdly, when a man is kept inside the jail because he is punished by the government and inside the jail premises if he wants to enjoy a luxurious life, then will it be possible to avail these facilities? Of course not because he is in the prison, likewise in the universal scripture that is *Bhagwad Gita*, Lord Krishna has said several times that this third planet is jail. So human life has been given to come out of this prison and to know your real identity.

This human body means nothing without the soul. When the soul leaves the body, then only the person is declared as dead. So the real work is done by the soul and the master of this soul is the super soul. But we all are engaged in the material benefits. None of us are thinking to offer food to this soul which is to offer loving service to the Lord. This entire material world is entangled by illusion (Maya) which leads people to get caught in the material clutches of birth, death, disease and old age.

You might be thinking why I have given the teachings of *Bhagwad Gita*. Please be practical and scientific and just analyse. The law cannot be made by an individual but by the government. Any law made by any general personality is not acceptable. Similarly, Dharma or the rules for the entire manifestation is also not made personally, it is made by the Lord. So we have to obey the basic teaching of *Bhagwat Gita* that we are not the body, actually we are the soul and we are the part and parcel of the super soul. A doctor can never compromise with the patient for his medicine or dieting. If he does so then he is not a doctor. Likewise, any spiritual organisation cannot compromise with the real Vedic scriptures.

Some might think these are not at all scientific; existence of god is totally fake, etc. So let me ask you a few questions. Can you show me the sun in the evening time? Does that mean the sun doesn't exist? Can you show me your mind, intelligence and ego? Never, but that does not mean that these things do not exist. Actually it is proved that this material physique is not at all capable of viewing any thing beyond our ability or power. Similarly we can never observe the existence of god by having this material physique or material eye.

There are various service records so that accordingly a man would be gifted or promoted. Similarly whatever works we do are recorded and accordingly we get another physique. You may think it is sort of unscientific but you think about your childhood body, the body gradually changes. After some days you will get your young body, then old age likewise death is also a change of body. But mind, intelligence and false ego will work under the instruction of the nature to accept another body and we all have to accept our next physique.

But in order to get rid of all this material cycle we should know the purpose of this human life, our identity, why we have come here and a lot many things. As a result our human life would be successful and satisfactory.

Ananya Anudarsini Tripathy
EEE, 2nd Sem.

Time

Time of hard struggle,
Of painful endless wait
That triggered sorrow
Bound with hope

Time of extreme happiness
Of achievements, success
Feeling of care, of love
Feel blessed, Heaven!

Time of travel, together
Recollections from past
Thoughts that provoked fun
Wonderful exterior, of present
In a compact box with wheels
Made memories, forever

Time of relationship cracks
Of problems, minor and major
Made misunderstandings
Pain of dear, hurt of dear
Others try to resolve
Made walls of complicated separation

Time devoted to earning
Of files, deals, calls
Failures that left the brow raised
And the forehead wrinkled
Sip of tea, dreaming solution
Made money, Living

Time of old age nearing exit
Of prescriptions that ordered
Grandchildren hesitate
Children do care rare
Teeth betrayed Vision bleached
Realized regret Memories remembered

Time of death Silence to prevail
Of endless unfelt rest
That would trigger emotion
Bound with tear drops.

Haraprasad Chatterjee
CSE 4th Sem.

Bullet Trains or Better Trains? What Does India Need?

Many people are of the opinion that the onset of bullet trains will bring business revolution in India which is not really the case because the economic condition of people is very poor as a result more than 30% of the population will not be able to utilize the facility because they will not be able to pay for it.

The department should rather be concerned about the alarming rate of death tolls during rail travel and should work to achieve this goal. A shift of focus of the funds from bullet trains to better trains is the need of the hour. Another reason why Indian railways need an upgradation rather than bullet trains is that Indian railways carry more than 13 million passengers every day but trains to accommodate them are still very few. Indian railways are known to carry 15 times more people than they are supposed to. Overloading leads to damage to tracks which are not changed or repaired as efficiently as they should be. The beginning of the "SWACHH BHARAT ABHIYAN" did reflect a change in the sanitation and cleanliness condition of the country but the railway sector has still not seen any big change. The goal of converting all old fashioned toilets into bio-toilets with modern features is still incomplete.

With stumbling economic condition of the country, the wide use of bullet trains will only result in more losses and added burden on the railway department. So the government should concentrate more on improving the quality of rail travel rather than bringing in new and costly technology. Bullet trains are really a prospect for the future generation but it is not something which should be brought up just for the sake of development without any real utility of it.

Pratik Nayak
ECE, 3rd Sem.

Google Women Tech Maker Group, Bhubaneswar

August 2012 was when I started my time in Silicon. The first year of my college was so much fun despite being a tad bit slow. Staying at the hostel for the first time; it has its own stories to tell.

But it was slow because of the hectic 6 to 5 schedule of classwork. For the kind of person I am, I wish to learn with practical approach. But with predefined boundaries of learning, I stumbled a bit, yet didn't wish to stop here.

With each passing semester, things got better and I found my interest to be more inclined towards the computing world, and skills towards the effective management.

When introduced to Android, I had to get started by learning JAVA. I found it tough one as I had to learn it entirely by myself, especially when there was no excellent internet facilities.

So yes, self-study and determination are two of the most important factors for getting somewhere better or the best. Time management is another key. I will tell you why. In 2015, I also came to know about Google Developers Group (GDG), Bhubaneshwar, through one of my seniors. I started taking and giving sessions there too. So, I had to manage classes on electronics to excel the semester, study and work on my interest and stay connected with GDG. For handling all this, regular practice of meditation helped me a lot. Without fail, I with a few other friends of mine used to meditate daily.

Ultimately, I sought for a good company who helped me out for studies, GDG provided me network and resources for development towards software and friends with who I could meditate.

I went for an interview at my very first job at Mindfire Solutions. I had job offers from Infosys and Wipro too, but, as a personal choice, I preferred a mediocre level company for work.

Working there was a really good learning phase. However, I again found my interest heading elsewhere. It's flickering I know, but experiment when, if not now!

I started creating video tutorials and writing articles for the things I learned. I had created a few Youtube videos for which I got a pretty good response.

I also started another youtube channel, called MYUZ, for channeling my other creative ideas. And then I realized that I wanted to do this full time. So I quit Mindfire for my passion, making sure I can make enough to pay my bills. Currently, I have courses on Pluralsight, Udemy, Packt and Youtube. I also have a website called smartherd.com.

Besides all this, I am also lead in a community called Women Techmaker Group, Bhubaneswar. Starting from a speaker at GDG to being a leader at the tech community for Women, It has been a great learning path.

Conclusions: I would suggest each one of you, to try to experiment and learn. Do what you like to do but do it for a better living. Take risks but play safe.

Keep Smiling.

Annapurna Agrawal

(Annapurna Agrawal is a software engineer from the 2016 passout batch of Silicon in Electronics and Telecommunication branch. She is a trainer in the Google Developers Group and the lead of the Google Women Tech Maker Group Bhubaneswar.)

Cyber Terrorism
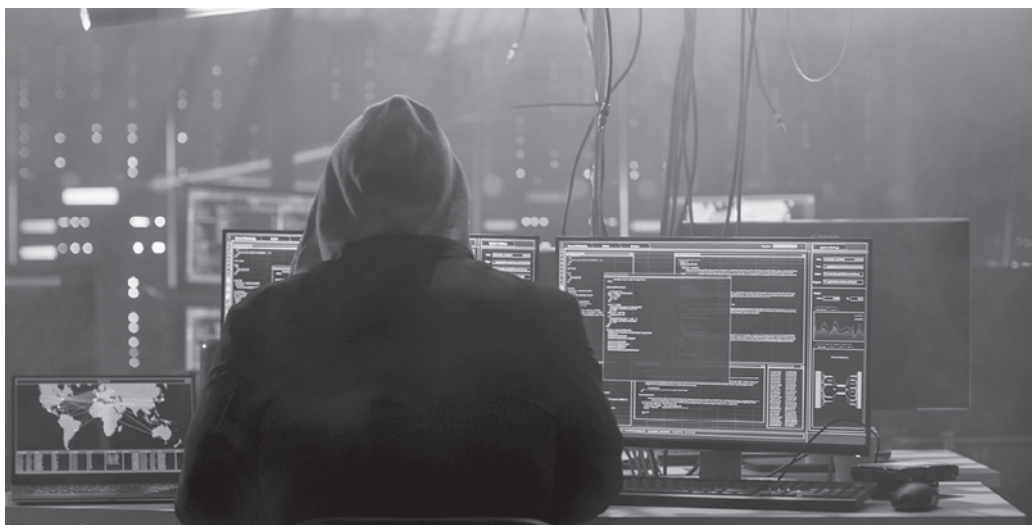
Cyber terrorism is defined by the U. S. Federal Bureau of Investigation as a premeditated attack against a computer system, computer data, programs and other information with the sole aim of violence against clandestine agents and sub-national groups.

As per reports by the U. S. Army War College the term first appeared in Defense literature in 1998. But the word is still considered controversial in terms of its scope. Some authors restrict it to a very narrow definition of - disruption attacks against information systems for the primary purpose of creating alarm, panic, or physical disruption by known terrorist outfits. Other authors prefer a more generic definition and wider scope which encompasses Cyber-crime as well.

The main motivating factor behind the use of Cyber-terrorism is the wider scale and pervasive extent of impact and damage it can cause as compared to other means. The objective varies widely. A few instances of this are presented below:

- A group called Chaos Computer Club created an Active X Control for the internet in 1997, to steal money from user's bank accounts. This was done simply for personal gain.
- To gain publicity or the mere excitement of challenging the security of a system through Trojan Horses & Denial of Service Attacks is a motive for some. In 1998, ethnic Tamil guerrillas attempted to disrupt Sri Lankan embassies by sending large volumes of e-mail.
- In an extreme instance of Cyber-terrorism a mob-

boss who survived shooting was killed in the hospital. The assassins hacked the hospital computer and changed his medication into a lethal injection resulting in his death.

- Spreading rumors, fake news & mis-information to scare people or to spread hatred messages. Many celebrities had to undergo severe emotional turmoil because of fake news.
- Known terrorist outfit Al Qaeda uses internet to recruit radical jihad extremists, publish jihadist literature, accept donations online to fund their campaigns, give radical preaches, engage in psychological warfare by threatening specific communities/societies, coordinate terrorist attacks & glorify martyrdom.
- Data diddling is apparently a less severe form of attack where medical records, financial records, passwords and other sensitive information are changed. But sometimes the ripple effects are fatal.

Earlier majority of the Cyber-terrorism incidents weren't reported because of the fear of reputational damage. But after the 2017 WannaCry ransomware incident many countries have restructured their mitigation strategies and are more open to reframing and redesigning policies to curb the long term impact that these kind of activities can render.

Dr. Sushree Samita Rout
Associate Professor, Dept. of CSE

Plantation Drive by Silicon Green Club

The key to a greener planet is in your hands

SGC (Silicon Green Club) had organized five events in the odd semester of 2019-20. Two plantation drives- first one 13th August morning at 7:30AM near the car parking area & second one on 2nd November at 10.00AM near the back side of non-veg canteen. 3 more events in October 2019 were organised which were Plastic Waste Cleanliness drive on 2nd October, an invited talk by an expert on 16th October & an essay competition for our students on 19th October.

Plantation drives were in accordance with the MHRD's campaign of "One Student, One Tree" and this initiative was in line with the Hon'ble Prime Minister's idea of a green and healthy environment.

AICTE approved technical institutions were requested to carry out plantation drives by planting one tree per student. Silicon students, staff and faculty members participated in this program, comprising primarily of planting several saplings, to make it successful.

On 2nd October, on the eve of Gandhi Jayanti, SGC conducted a plastic waste cleanliness drive inside the college campus. Various students along with SGC volunteers carried out this event in the presence of FC of SGC, Subrat Kumar Sahu & Principal Dr. Jaideep Talukdar.

The Invited talk was given by Dr. Jaya Krushna Panigrahi, Secretary OES (Odisha Environmental Society) on the topic "Urban Waste Management: A Greater Challenge Ahead" on 16th October from 3.30 PM to 4.30 PM at our video conference hall. The participants were Silicon students, and faculty members.

An essay competition was held for the students on the Topic "Plastics: Waste or Wealth" on 19th October at the exam section halls from 12:00 PM to 1:00 PM. 1st & 2nd prizes were won by Kirti Srivastava bearing SIC 170410255 of 3rd year & Harsh Raj Singh bearing SIC 180310508 of 2nd year respectively.

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