Our Patrons

Dr. Satya Prakash Panda
Chairman

Dr. Chandra Dhwaj Panda
Secretary

Mr. Biranchi Narayan Panda
Vice-Chairman

Message from the Principal

I am extremely happy to learn that our college is going to bring out the second edition of its quarterly newsletter “The Technoijyoti”. Ever since the inception of this college in 2004, we have been striving for excellence in different departments/areas of engineering and technology, and at the same time marching forward with the mission of professional as well as intellectual development of the students. I feel gratified to see that we are doing our best in carrying on the mission of grooming our students as such professionals who are not only competent enough to combat the challenges in their life but also become good human beings with moral excellence and social sensitivity. Our motto is to produce employable quality engineers and technocrats for facing the society with confidence and commitment. I congratulate Prof. (Dr) S. R. Nayak, Editor-in-Chief and the members of the Editorial Board for their untiring effort without which it would not have been possible to bring out this issue of the Newsletter in such a splendid form. I wish all the very best for the publication of the newsletter.

Prof. (Dr) M.K. Roul

From Editor’s Desk

Positivity is the biggest strength in life. Success follows who are positive in all situations. Many great celebrities had one or more weaknesses but they were always positive for self, others and situations and hence became successful by overcoming all sorts of obstacles. A little poison of negativity about others in our mind can destroy our relationships with them. Everybody has definitely something that can be appreciated, we only need to apply positive vision and appreciate others. So friends, even though the situation is same, it still depends on how we interpret it, which shows our mental status and the way we think of others. Let’s take an example of lovely roses that have thorns on them. A person with an inauspicious vision would say, “Oh God! Even these beautiful roses have thorns on them”, while a person with an auspicious vision would say, “Wow! What a wonderful creation of nature - a beautiful rose amongst thorns.” Always develop a vision that can find out something good even from a bad thing or person. And by doing so, slowly your mind and intellect will become pure day by day. This issue of our Technoijyoti attempts to bring that positivity in the hearts of our loving readers to reach their cherished destination. Develop a positive vision and always find out something good from everything and everyone.

Prof. (Dr) Satya Ranjan Nayak

List of Important Articles: Tech Talk/ Think Tank/ Special Feature/ Buckle Up/ Poessy
An important constituent of software quality assurance process is testing. Testing has become an important part of every software development process on which companies devote considerable time and effort. In fact, software testing has been acclaimed to be the most time and effort consuming phase in any software development process. Object-oriented programming has become very popular as it helps increase programmer productivity. For object-oriented programs, traditional software testing is insufficient because of their fundamentally different characteristic. A large number of research results are available on testing traditional software, but research results on effective testing of object-oriented software has scarcely been reported in the literature.

The object-oriented paradigm has become extremely popular in the areas of programming languages, databases, user interfaces, specification, and design methodologies. Object-oriented software consists of components (objects) that interact with each other to carry out specified functionalities of a software system. Reuse of software components and easier development and maintenance through enhanced modularity and data encapsulation are systematized through the principles of object-oriented software development. However, features such as dynamic binding, inheritance, and polymorphism increase the complexity of the relationships among the programming units. This increased complexity of relationships has brought new challenges to integration, testing, and maintenance of the object-oriented software system. Several features of object-oriented programs such as state-based behavior, message paths, polymorphic binding are extremely hard to extract from static code analysis. However, this information is explicitly available in the analysis and design models.

Model-based testing is the application of Model-based design for designing and executing the necessary artifacts to perform software testing. This is achieved by having a model that describes all aspects of the testing data, mainly the test cases and the test execution environment. Usually, the testing model is derived in whole or in part from a model that describes some (usually functional) aspects of the system under test (SUT). The model describing the SUT is usually an abstract, partial presentation of the system under test's desired behavior. The effectiveness of model-based testing is primarily due to the potential for automation it offers. If the model is machine-readable and formal to the extent that it has a well-defined behavioral interpretation, test cases can in principle be derived mechanically.

The first trait of being a human is being self-centered. As humans we only spend time think to resolve our life issues, find ways to conquer our dreams and positions of authority and thrive as the winners in this society. Although God has gifted us with wonderful eyes but all we do is to use them watch the beautiful scenery and discuss like a philosopher as to what or who might have created it and cherish the magnificence of it. Not for a single moment do we take the pain to actually open our eyes and look towards those that are deprived.

When I say deprived well ..I mean to indicate all such people who have been denied the most important right—“The Right to LIVE”. Yes friends, there exists not just one or two but many thousands and thousands of people whose life begin in the dark corners of the society and they come bearing a bleak future. They live through hell and when they try coming to light it is us, the blessed ones, who mock at them, look at them in despair, talk about their lives as if we are omnipotent and omnipresent and try to scrutinize their lives without knowing absolutely anything about them. The lives of the prostitutes and the hawkers, the beggars on trains, the child laborers, the homo and bisexuals forced into prostitution and the painful journey of theirs which forced them or compelled them to take such professions of slavery, disgust and oppression have been brought in front of us time and again but yet we continue to remain immune to them and dishonor them as humans.

I have not included the real life stories of some of these brave people who have managed to breakthrough the social stigma and narrate their pain to the public because my motive is not to present a real life story which would become a tale but to imbibe a sense of respect and honor for the people living in this section of society and devise ways for them so that even they can avail the right to live and as humans get an equal treatment and respect from other humans. “When one gives respect, he/she earns it too”. This should be the notion. None of us know when one of them might help us in our need; for we cant forget the sacrifice of the hawker who took a shot on his chest to protect the Indian army man during the 26/11 attack on The Taj.
Technical Events...

ISTE Sponsored National Seminar

Gandhi Institute for Technological Advancement (GITA), Bhubaneswar, Odisha has conducted an ISTE Sponsored National Seminar on “Role of Technological Advancement in Sustainable Development” in college auditorium on 20th & 21st January 2014. Apart from Patrons Dr. S.P. Panda, Chairman and Dr. C. D. Panda, Secretary of the college, other dignitaries those who graced the occasion are Dr. D. K. Tripathy, Pro VC of KIIT University, Dr. S. M. Alli, National Executive Member, ISTE, Dr. P. K. Parhi, National Executive Member ISTE and Dr. M. R. Senapati, Secretary, ISTE section, Odisha. Prof. (Dr.) D. K. Tripathy, as chief speaker, highlighted about the recent technological advancement especially about nano-technology. Students & Faculty members of the chapter presented technical papers on various topic. Prof. Samir Das, Secretary ISTE Chapter GITA offered vote of thanks to the above dignitaries.

Workshop on PCB Design

The Department of Electronics and Communication Engineering organized a two Days Workshop on PCB Design on 30th Sept &1st Oct 2013 at GITA Engineering College. The workshop was inaugurated by Mr. Naresh Chandra Pandey & Sandeep Prakash Head of “Electronics for you” group, New Delhi. Prof.(Dr) Dr. Murtyunjay Panda, head of the department presided the workshop. The workshop gave hands on training to the students for Designing of PCB Board for Micro Controller.

In this workshop other dignitities those who attended the workshop are Prof. M. K. Roul, Principal and Dr. S. Prasad, Dean Academics.
Ahwan - 2014

The annual athletic meet ‘AHWAAN’ – 2K14 was organized on 6th and 7th of January 2014 and the athletic events like long Jump, Shot Put, Javelin Throw, High jump, Discuss Throw etc were held. Moreover inter branch events like Foot Ball, Cricket and Volley Ball were organised. The Champion’s trophy went to EEE branch. The champions of the athletic events was Mr. Sandip Kumar Sahoo (Boys) from EEE branch and Ms. Laxmi Swarupa Dhal(Girls) from CSE branch respectively. The winners of the Inter Branch events were - in Cricket – EEE branch while the runners up were ECE branch in cricket, in Foot Ball- EEE Branch while the runners up were CSE and the champions trophy in Volleyball went to EEE while the runners up were EE branch.

The successful completion of the AHWAAN – 2K14 has to be credited to the efforts from the Vice – President, Athletic society Mr. C. K. Nayak, Athletic Secretary - Mr. Jitendra Kumar, P. E. T - Mr. Promod Ku. Das and organizing committee members Mr. Shantanu Ku. Biswal, Mr Shrikanta Ku. Beura, Mr. B.P. Mishra, Ms Shruti Das and Mr. Prasanta Ku. Dash.

AHWAAN – 2K14 could not have been successful without unending support from Vice - Chairman Mr. Biranchi Narayan Panda, Secretary Dr. C.D. Panda, Dean Administration Crd. P.K. Rautray Principal Prof (Dr.) M. K Roul, Vice – Principal Prof (Dr.) S.C. Mohapatra and all the deans & HOD’s.

Innovizon - 2014

Innovizon-2k14 was organised successfully on 8th & 9th of January 2014 by the Vice President of Science Society Prof. Chittaranjan Behera with cooperation from all faculties & staff members. Several events like, Math Olmpiad/C-Coding/ Gaming/FunEvents/Painting/Roadies/Paper Presentation/Still Photography were conducted. Few more exciting events like MECHASO/BUSINESS MANIAX & Art exhibition were also organised.
Akankshya - 2014

Gandhi Institute for Technological Advancement (GITA) recently celebrated its Annual Cultural Day ‘Akankshya’ on the 10th & 11th January 2014.

The fest celebrated youth and vigor in all its form be it physical, intellectual or extra-curricular talents. The fest was inaugurated with a lot pomp and splendor by Sri Biranchi Narayan Panda, the Vice Chairman; Prof. (Dr) M.K.Roul, The Principal; Prof.(Dr) S.C. Mohapatra, Vice Principal; Cdr. (Dr.) P.K. Rautray, the Dean Administration; Dr. Srinivas Prasad, Dean Academics.

It was a welcome break for the students who for these 2 days put their books aside and donned party hats.

Akankshya2k14 was a myriad of fun, dance & drama. It was a chance for the students to showcase their talents on stage. And they set the stage on fire with their enthralling performances and ensured that the night was memorable. The function celebrated the new beginnings and was a worthy start to the year.

The nights had lined up performances to keep the audience enthusiasm at its highest; the students participated in the fest in full vigor. They presented a plethora of events while some chose to share their melodious voice, some decided to keep the tempo up with their gyrating moves and others decided to take it a notch up with their acts of theatric brilliance. Not enough excitement to the parched souls the nights also showcased a performance by the college rock band, a mime show and stand up comedies.

The beats of the music, the electrifying performances filled the nights with a vibe that enlivened the night. Sans any star performances and celebrity guests the night was brought alive by the talented and energetic students of GITA, stars in their own way they enthralled the audience.

So, here is a thumbs-up to the celebration of life truly GITA style.
IIPC / EDP CELL- 2014

Project New Horizon

EDP & IIPC Centre of GITA Bhubaneswar started their programme “PROJECT NEW HORIZON” an Advance Technical Lecture series in the college Auditorium on 23rd December 2013. Hon. Dr. Chandravadaja Panda Secretary, GITA was the chair person of the function. Dr Ravi Shankar Sundaram (Marie Curie Research Fellow, Dept. of Elect Engg) Cambridge University, UK was the Guest Speaker, Dr. S. C. Mohapatra, Vice Principal, GITA, Cdr. P. K. Rautray, Dean (Admn), Prof. S. N. Mishra, Director EDP & IIPC Centre, GITA and Prof. K. K. Mishra, HOD Basic Science & Humanities and Core member of the Centre were the persons on the dais. All the HODs / Professors and faculties along with students of GITA witnessed the program. The program came to an end with a note of thanks from Prof. (Dr.) Satya Ranjan Nayak.

Business Quiz - 2014

The debate club of GITA organized a Business Quiz -2014 sponsored by GITAM School of International Business, Visakhapatnam (AP) on 12th December 2014. A good number of students participated in the quiz competition and showed their talent and won rewards from Prof. (Dr) Satya Ranjan Nayak, Prof.-In-Charge Debate Club and Prof (Dr) Pramod Mishra GITAM School of International Business, Visakhapatnam (AP).
B-MANIAX

On 8th January 2014, under the patronage of Dean (Admn.) Dr. (Comdr) P.K.Rautray and Principal, Prof.(Dr) M. K. Roul, guidance of all Professors and the flag-ship of Prof. S.N.Mishra, Director EDP & IIPC Centre, the Centre came up with its signature event B-ManiaX during the techfest INNOVIZON-2014.

GITA hosts International Conference


The renowned International resource persons who delivered their valuable speech are Prof. (Dr.) Nikhil Ichalkaranje, Australia and Prof. (Dr.) Niladri Sekhar Das, ISI, Kolkata, Prof. (Dr.) M. Panda Convener of the conference presided over the session.

The Editorial Committee invited researchers to present research & technical papers, case studies, technology updates, etc. related to the theme and sub-themes of the conference. Some selective papers will be published as a special issue in “International Journal of Analytical Experiment & Finite Element Analysis” (IJAEEFA)
GITA Annual Alumni Meet 2014

GITA VINTAGE, the Alumni Association of GITA, had its 4th Alumni Meet-2014 on 11.01.2014. The guests on dias are Prof. (Dr) M.K. Roul, Principal Cdr. P.K Rautray, Dean Administration, Prof. (Dr.) S.C. Mohapatra, Vice-Principal, Prof. (Dr) S. Prasad, Dean Academics, Prof. Sahti Mohanty, Professor-In-charge present in the ceremony. The following office bearers were elected for the next year as Er. Kumaresh Rout, President, Er. Sangram Keshari Das, Vice-President, Er. Mrutyunjay Sahoo, Secretary and Er. Surya Narayan Mohanty, Treasurer.

RRC 2014 AIDS Awareness

Usually AIDS patients are considered anti-social and immoral due to lack of proper knowledge of the disease. People still feel apprehensive to talk about AIDS. The dilemma is to such an extent that people feel awkward to even get their tests done. There is big gap between reality and social construct, due to improper flow of knowledge within the society. Thus to fill this gap between the reality and social construct about the disease, we will play the important role of Mediator and Facilitator for the proper flow of knowledge about AIDS to the benefit of disadvantaged people in the society through conducting various Informative programs. The goal of our organization is to spread AIDS awareness and provide social empowerment for those who are infected by the disease in India. We need your support to help us reach this goal.

Keeping this in mind GITA organized AIDS Awareness Camp on 5th December, 2014. The academia and students participated in this event in full swing. The event was inaugurated by welcome note address by Prof. (Dr) M.K. Roul, Principal and Prof. (Dr) S.C. Mahapatra, Vice-Principal. Prof. (Dr) Satya Ranjan Nayak, the peer educator, Prof. Sarat Kumar Swain, Prof. In-charge, NSS. RRC organized and interacted the student and provided insight.
Poessy
Literature & Poetry

Saqti Mohanty,
Asst. Prof. Physics

The Poet's Club
Presents

Buckle Up
The Importance of Soft Skills
Asst. Prof. Ajit Kumar Rath

The most common HR question is: ‘Beyond technical skills, experience and knowledge, what added value do you bring to the organisation?’ Technical acumen alone is insufficient for engineering career success. A recent study showed that soft skills topped the list of must-haves for employers, with 98 per cent of them saying communication skills are essential and 92 per cent teamwork skills. “Soft skills” play an increasingly important role. In the day-to-day work of engineers and technical specialists, soft skills are as important as technical skills. These skilful professionals navigate smoothly and effectively through a wide variety of social and professional situations with a wide variety of people. The concept of soft skills is not limited to just plain communication skills but also includes aspects such as people skills. In the broader context, soft skills would also include negotiation, decision making, reasoning and problem solving, and conflict-resolution skills required in today’s work environment. Throwing light on how soft skills are directly proportional to one’s personality, Rajesh Choudhary, HR head, Xilinx India, says, “Personality traits such as common sense, optimism, responsibility, integrity, attitude and behavioural competencies that include analytical thinking, result orientation and achievement, communication, teamwork, conflict management, customer orientation and attention to details come under soft skills.”

As companies become more global, soft skills are highly desirable and required in more positions now than ten or even five years ago. You may have an excellent knowledge base in engineering or technology, perhaps even a Ph.D, and maybe bilingual but if you have not developed good skills in communicating, interacting and people resource management, you have already limited your opportunities and chance of success. Take for instance, an engineer might be excellent at writing code to solve a particular problem but unless he possesses soft skills, he would neither be able to understand the problem faced by a customer nor explain how his suggested method makes the best fitted solution for the customer’s problem. Soft skills are very essential for personal and professional development of individuals. In today’s economy, it is even more important considering a significant portion of Indian GDP comes from services sector. To support this growth in services sector, organisations require talents who possess greater soft skills along with hard skills. Hence soft skills are critical to make you employable.

Prof. Saqti Mohanty addressing INFOCIANS at INFY, Bhubaneswar

Literature is a parallel history of civilization. It reflects the mindset of people to conceive ideas & thoughts. Literature is sometimes not all about communication skills or techniques or about projecting a language. Fairly its an art form. Whereas a language is just a tool to decode signals into text. This is often called signal processing. But literature delves deep into veins & makes one sense the truth, the raw form of truth. May it be pleasant or furious. The truth which is there in the instinct for generations, as if we encountered it long back, might be in our previous birth. The truth which is as old as time, as old as God, if there is a God. It never deforms with time. It exists in a different frame free from the space-time co-ordinate system. But we the readers, writers, thinkers and we the x,y,z are living in a space-time co-ordinate system, and literature, poetry, music, paintings and aesthetic art forms, sometimes establish a link between these two frames. But language always falls short to manifest these feelings, emotions and senses. So language is believed to be the weakest way of communication. Imagine tears in the eyes of a mother when her child is dead, what else she could speak. Papa cries in his death bed holding my palm, what else he could speak. Beloved closes her eyes for a kiss, you get away from home and the same sky does not follow your dead-fish eyes. Do you need a language to shape your vacuum! This failure of expression makes you incomplete, makes you handicapped. This makes one write to reach closer to the emotions and feelings leaving you dissatisfied, disappointed. While a philosopher asks, “why the creation is like this”, the poet asks “why the creation is not like this “ This unending quest makes one a poet, makes one an artiste. Poetry and art give this freedom of questioning. One fails to get rid of this quest because a mind deformed with ideas can never come back to the original configuration. And one pendulums between life and death, dreams and realities, earth and moon. This pleasure of penduluming, this pleasure of restlessness can never be monetized. And on a fine morning you wake up to write a program, called poetry.

CONGRATS ...

1. Which of the following countries will host 2018 Winter Olympics?

2. Recently, RBI has released a draft report on enabling PKI in payment system application. What does PKI stands for?
   [A] Public Key Infrastructure   [B] Primary Key Infrastructure
   [C] Primary Key Institute   [D] Public Kiosk Infrastructure

3. What is the name of the only novel written by Charlie Chaplin that is being made public for the first time?

4. Which among the following chemical is most suitable in Food Processing industry, to be used as a food preservatives?

5. Which among the following Planet pole is the only known hot polar vortex in our solar system?

6. Which among the following countries is currently known for highest number of deaths of under-five infants and children in the world?
   [A] India   [B] China   [C] Pakistan   [D] Bangladesh

7. In India, the nodal agency for estimation of poverty at the national and state level is ________?

8. Which of the following seas has highest salinity in the world?

9. Who is the founder of internet?

10. How many characters can send in tweet?
Kudos to our...

Students Selected in Campus Drive on February 2014

RV Telecom Pvt Ltd.

Zeta Interactive
Sritam Maikap

Zenoova Technologies Pvt Ltd.
Chandan Gupta, Parth Pratim, Sangram Kesari Behera, Soomam Kumari Sahu, Umesh Chandra Mahapatra, Kumari Jyoti, Abhishek Das, Ajit Kumar Panda

Bizon Cloud Systems Pvt Ltd.
Debasmita Tripathy, Kartikeswar Mallik, Sagar Sanjat Behera, Sonu Ram, Chinmayee Sahu, Priyanka Das, Shobh Khan, Sujeet Kumar, Swayamsiddha Choudhury, Jayant Kumar, Abhijit Parida, Amit Navneet Swain, Ashik Kumar Jena, Ashish Kumar Tad, Krupasingdu Sahoo, Manoj Kumar Choudhury, Pragyan Mohapatra, Santosh Behera, Siba Kumar Sahoo, Soumya Ranjan Behera, Soumya Ranjan Mishra, Sunil Kumar Naik, Jitendra Kumar, Preetam Biswal, Anand Kumar, Chita Ranjan Patra, Sweta Smruti Lekha

Prime Focus Technologies
Soubhagyaa Ranjan Dalai, Ashutosh Kumar Pandey, Rajat Saha, Autish Moharana, Debasmita Biswal, Raj Abhishek, Gopal Kumar Roy, Sanchayan Pati

IM Group
Soumya Ranjan Mishra, Sritam Maikap, Aparna Ram, Mithun Kumar Soni, Shiv Shankar Prasad, Sujeet Kumar, Suman Padhi, D Mohan Kumar, Jayeeta Ray, Madhusmita Sahoo, Priyadarshini Sahoo, Deep Singh, Raja Kumar

MJ Technologies Pvt Ltd.
Adya Pallabita, Amulya Ratna Martha, Anand Kumar, Chita Ranjan Patra

Argu Soft
Gautam Kumar Samal