

Bhilai Institute of Technology, Durg

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Department of
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Chief Patron

**Shri . I. P.
Mishra**

Patron

Dr. Arun Arora

Advisor

**Dr. Anup
Mishra**

Editors

**Dr. S. Bhusnur
Mrs. Naushin
Anjum**

Student Members

Garima Rahangdale,
Amit Barnwal, Shreya
Deb and Arijeet
Banik

From the Editors

It's not the load that breaks you down, it's the way you carry it

- Lou Holtz

During the examination time students are busy in beating the stress due to studies. Doing each thing calmly and carefully may help in getting rid of any stress. Also, improper time management, last moment preparation usually mar the performance, steadiness and continuous efforts lead to success in every venture. According to a research report, Participation in sports helps improve learning skills and self-esteem. Technology is growing rapidly, researchers at the University of California, Los Angeles (UCLA), have designed a 3D-printed device that can produce electricity from falling snow. So gear up and get ready to assimilate advancement in technology.

Laurels

- Following students of eighth sem qualified in GATE-2019:
Dipty Chandrakar, R Venu Gopal, Akansha Jaiswal, Anurag Korram, Monika Sahu, Meghna Singh, Sneha Yadav, Vikas Kumar Dewangan, Omnarayan Sahu, Gaurav Banerjee, Aditya Vikram Shivhare, Varun Mehta
- Shreya Deb of sixth sem won third position in the National level technical event TECHKRITI-19 organized by IIT Kanpur during March 7-10
- Following students of eighth sem qualified in CAT Exam:
Prashant Tiwari, Mohil Verma, Garima Rahangdale
- Dipti Chandrakar Meghna Singh, Viswasmayee Priyadarsini and Shivani Netam participated in National level SRAJAN "MEGA PROJECT CONTEST" organized by MANIT Bhopal on Feb 23-24
- Nine students were selected in campus recruitment by ARN Teleservices

INSIDE THIS ISSUE

- 1 Snippets
- 2 Increasing rate of unemployment in India
- 3 Achieving Goals OR Focusing Deadlines
- 4 Algae : Source of Energy

Snippets

Did You Know?

Your heart beats over 100,000 times a day.

Keywords

1. Admiral: It is one of the highest ranks in some navies. It is usually abbreviated to "Adm" or "ADM".

2. Billet: A place especially a civilian's house where soldiers are lodged temporarily.

3. Cadet: A cadet is a trainee. The term is frequently used to refer to those training to become an officer in the military.

4. Dog tag: It is an informal but common term for a specific type of identification tag worn by military personnel, conveying personal and medical information.

5. Encampment: Also known as military camp, is a large temporary camp especially for lodging soldiers.

1) **NANO1**-NANO1 is the perfect invention for passionate stargazers who not only like to be awestruck by looking at the wonders of the sky but also want to capture these with their cameras. The inventors of NANO1 bill it as the smallest astronomy camera in the world which can capture 25 times more light than the human eye.

2) **ROBOTIC PROCESS AND AUTOMATION**-Like AI and Machine Learning, Robotic Process Automation, or RPA, is another technology that is automating jobs. RPA is the use of software to automate business processes such as interpreting applications, processing transactions, dealing with data, and even replying to emails.

3) **VIRTUAL REALITY AND AUGMENTED REALITY**-Virtual Reality (VR) immerses the user in an environment while Augment Reality (AR) enhances their environment. Although VR has primarily been used for gaming thus far, it has also been used for training, as with Virtual Ship, a simulation software used to train U.S. Navy, Army and Coast Guard ship captains. The popular Pokemon Go is an example of AR.

4) **ENOMAD UNO (Portable Water Power Generator)**-Hydel power is the nature's blessing to humans and still ranks among the top sources of renewable energy. What if you could make personal use of hydel power for minor power requirement? With Enomad Uno you can, as it is a portable hydel power generator with a small propeller which converts the kinetic energy of moving water into micro-electricity

5) **DOLFI (Next Gen Washing Device)**-Get ready to forget your woes of spending hours getting adamant stains out of your clothes using soap bars. Because it's time for ultrasonic solutions to take over and Dolfi is an example of how technology can transform the way we wash clothes.

INCREASING RATE OF UNEMPLOYMENT IN INDIA

Kirti waghade, 4th sem

One of the major problems that our country is dealing with is 'unemployment'. It is not because our countrymen don't have skills but because of the less opportunity generated by our country. Unemployment in India is a complex problem with numerous overlapping and intertwined causes. According to centre for monitoring Indian economics, unemployment in India has risen to 31 million individual looking for jobs, the lowest unemployment in India was 3.4% but has now risen to 7.1%. However, it is possible to identify several key causes like farming which has become very unattractive given the vicissitudes of the monsoon and government polices seasonal farming. Poor economic growth along with increasing population is the major factor responsible for unemployment. There are some suggestions for curing this problem and these are, creation of opportunities for self-employment, improvement of education system and providing more global exposure to the Indian market etc. The problem of unemployment in the country has persisted since long, while the government has launched several programmes for employment generation; desirable progress has not been achieved. The policy –makers and the citizens should make collective efforts in creating more jobs as well as acquiring the right skill – set for employability.

Achieving Goals OR Focusing Deadlines

Preksha Sahu, 4th Semester

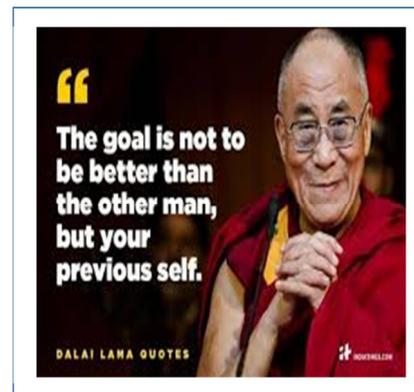
From determination to activeness, sacrifices to happiness, hard work to celebrations, the strengths as well as the confidence of an individual plays a vital role. One must learn to lead as well as to obey.

Focus on the goals not on deadlines, as imperfections are part of life. The surrounding has a majority of people giving suggestions and advises, but lack the dare to execute any of them.

But above all the excuses, there are people who walk their talks. They have concerns for the society, especially the youth. Apart from the repeated and Orthodox pattern of parenting, they are advising parents for a bit different way of parenting.

Writing down the goals and aim on a daily basis helps an individual to stick to it and achieve it. A person should always try a 21 days formula. It's a research based observation that it takes this much amount of time for the brain to set yourself in the path decided by you.

Apart from these, a time comes when you lose hopes, you start getting distracted. Every third or fourth day a voice inside prevails, "now I can't". All what is required is that just a little bit of motivation, a believe that you can do it and then finally your goals will be the priority and not the deadlines.



RIDDLE

David's father has three sons : Snap, Crackle and ?

ANSWER IN NEXT ISSUE
PREVIOUS ANS: MAP

Algae : Source of Energy

Josyula sai Bharati, 4th sem

Algae are effective source for the production of biomass fuels as these can regenerate themselves very fast so it takes only a few days to prepare fuels out of them. These contain 50% of their weight as oil, making these more effective for the biodiesel. But besides all the challenges to the fuel is that these are unfeasible and does not produce massive lipids in large scale. To combat the relatively low presence of lipids in the individual organisms, companies such as Solazyme Inc. are experimenting with selective breeding, genetic modification and fermentation processes to increase the yield, hence making it feasible. Chances are in the near future we will be seeing a lot of these fuels.

Pioneers

	<p>Shakuntala Devi (4 November 1929 – 21 April 2013) was an Indian writer and mental calculator, popularly known as the "human computer". Her talent earned her a place in the 1982 edition of The Guinness Book of World Records.</p>
	<p>Edith Clarke (February 10, 1883 – October 29, 1959) was the first female electrical engineer and the first female professor of electrical engineering at the University of Texas at Austin. She specialized in electrical power system analysis and wrote Circuit Analysis of A-C Power Systems.</p>



BITCON 2019

INDUSTRIAL VISIT TO 10MW HYDRO POWER GENERATION PLANT GANGREL, DHAMTARI (C.G.), by 6th Sem Students

VISION

To impart education and transform students into competent professionals in Electrical and Electronics Engineering to excel in various challenges to serve the society.

MISSION

M1: To provide excellent infrastructure, competent faculty members, disciplined ambience with rich ethical values,

M2: To assimilate Engineering knowledge and transform into efficient professionals,

M3: by inculcating perpetuated learning to cope with the challenges in research and industry.

PROGRAM EDUCATIONAL OBJECTIVES

PEO 1: Understand and apply the necessary concepts of core subjects in the field of Electrical & Electronics for engineering practice.

PEO 2: Perform in multidisciplinary environment and design innovative systems to benefit the needs of R&D and industries.

PEO 3: Emerge as a responsible individual with a sense of eco friendliness, social and professional ethics.

PEO 4: Prepare for higher studies and flourish technically through life-long learning to adapt new technology in engineering for the development of the society.