



Dr. D. Y. PATIL
EDUCATIONAL FEDERATION
Varale Campus

e - bulletin

Volume - 2

Edition - 11

November - 2022



Dr. D. Y. Patil College of Engineering and Innovation

Address:

SR. NO. 27/A/1/2c, Near Eco City,
Talegaon, Varale, Pune - 410507,
Maharashtra, India.

www.dypcoei.edu.in

Contacts:

020 48522562, 8799925769,
7972165097, 8669704710

Editorial Committee:

Dr. Suresh Mali
Principal,

Dr. Alpana Adsul,
Head, Department of Computer
Engg.

Dr. Latika Desai,
HOD Artificial Intelligence & Data
Science

Prof. Dipannita Mondal,
Head, Department of FE

Prof. Rushikesh Londhe,
Asst. Professor, Department of FE

Chaitanya Umesh Rasane,
SE Div - B.

Sejal Jadhav,
SE Div - A.

Content.....

Page-1-11

First Year Engineering Students
Induction Program.

Page-12-14

Expert Session on "Mobile
Network Evolution GSM to 5G"

Page-15&16

Gravitational Waves

- Dr. Anirvan Gupta
(Assistant
professor, physics
and Business
Communication)

Page-17

आशा...

- ऋषीकेश लोंढे
(FE)

Page-18

"Bhai-Lang"

- Chaitanya Rasane
(SE DIV-B)

Page-19

Mindfully self-compassion and
self love

- Yogeshwari Pawar
(SE DIV-B)

Page-20

Arts

Page- 21-23

Congratulations to our to getting
placed

Page- 24

Quote of the Month

First Year Engineering Induction Program

14 th November 2022 to 18 th November 2022

This year's induction program for the First-Year Engineering students was organized by Dr. D. Y. Patil College of Engineering and Innovation, Varale from 14th November 2022 to 18th November 2022. The students along with their parents reported to the college on 14th November 2022 . All the students were on boarded comfortably. The Department had arranged all the required facilities for the students staying near and far. Hostel arrangements were provided to the students the same day, and all were set for their college life which indeed did begin on a high note.

Day 1 (14/11/2022)

The induction program was inaugurated by Chief Guest Mr. Vidyanand Mankar Sir, Executive Director, Dr. Suresh Mali Sir, Principal DYPCOEI, Dr. Priyanka Singh Ma'am, Director DYPIMED Dr. Alpana Adsul Ma'am, Training and Placement officer and Head Department of Computer Engineering, Dr.Lattika Desai Ma'am, Head Department of Artificial Intelligence and Data Science, Prof. Ravindra Daspute Sir, CEO, Dean Academics and Head Department of Mechanical Engineering, Prof Yogesh Nagvekar Sir, Dean student welfare and Head Department of Civil Engineering, Prof. Dipannita Mondal Ma'am, Head Department of First Year Engineering and Mr. Dattaray Ranvade Sir, Register which paved the way off to a grand start to the induction program. As light symbolizes knowledge and darkness – ignorance, our leaders thus started the induction event with the lighting of the lamp which embarked a new start to the beautiful college life of our dear students. The lighting of the lamp was followed by the Department Presentation by Prof. Prof. Dipannita Mondal, Head Department of First Year Engineering. After that, a training and placement presentation was conducted by Dr. Alpana Adsul, Training and Placement officer and Head Department of Computer Engineering due to which students were able to clearly understand the scope and bright future which Dr. D. Y. Patil College of Engineering and Innovation crafts for them. This was followed by presentation by Dr.Lattika Desai Head Department of Artificial Intelligence and Data Science which helped the students understand the importance of the branch they have selected. Post that the University Curriculum and Examination Pattern were explained by Prof. Ravindra

Daspute, CEO, Dean Academics and Head Department of Mechanical Engineering which as followed by the presentation by Prof, Yogesh Nagvekar, Dean student welfare and Head Department of Civil Engineering which was a great platform for the students to about the students welfare activities conducted in DYPCOEI. The Institutional Presentation as given by our leader Dr. Suresh Mali Sir, Principal DYPCOEI. The toppers of First Year Engineering for the academic year 2021-22 and all the placed students of DYPCOEI was felicitated on this beautiful occasion by all the dignitaries on the dias. After the lunch break now it was time for some ice breakers, fun events were carried out by Prof. Rushikesh Londhe and team, which energized the students and attracted them. It was then time to call it off for the day.

Dr. D. Y. Patil Educational Federation's
DR. D. Y. PATIL COLLEGE OF ENGINEERING AND INNOVATION
 Veralde Campus, Talegaon, Pune - 410907



DR. SUSHANT PATIL
FOUNDER, PRESIDENT



ADV. MRS. ANUJA PATIL
FOUNDER SECRETARY



MR. VIDYANAND MASKAR
EXECUTIVE DIRECTOR

Department of First Year Engineering
 Welcomes You All For

FE Induction Programme 2022 – 2023



DR. SURESH MALI
PRINCIPAL, DYPCOEI

14th to 18th November 2022
 9.30 am onwards
 Engineering Seminar Hall, DYPCOEI



PROF. DIPANSITA MONDAL
HEAD - FE, DYPCOEI



Inauguration Poster of First Year Engineering Induction Programme 2022-2023

Lighting of the lamp by all the dignitaries



Inauguration Function of FE Induction Program 2022-23



Sarasvati Puja – Seeking the blessing of Goddess Lakshmi



Inaugural address by Prof. Dipannita Mondal, Head Department of First Year Engineering



Day 2 (15/11/2022)

It was then time to kick off Day 2 as the students arrived well in time; to start the event Mr. Atul Joshi founder of Indus Aviation Systems LLP, Pune conducted a session on Opportunities for placements, entrepreneurship and startups - Things to do, he shared his profound knowledge with the students which inspired each one of them to set their goals for the existing career opportunities in the society. This year Dr. D. Y. Patil College of Engineering and Innovation is gifting a Welcome Kit for the students of First Year Engineering. The kit was gifted to the students by Mr. Atul Joshi Sir and Dr. Suresh Mali Sir.

The students then were given an hour's break. Post the break a session was conducted by Dr. Lattika Desai Head Department of Artificial Intelligence and Data Science To end the day Prof. Rushikesh Londhe and team, led the fun events.



Felicitation of Mr. Atul Joshi Sir by Principal Dr. Suresh Mali Sir



Expert Session by Mr. Atul Joshi Sir



Distribution of Welcome Kits to First Year Engineering Students

Day 3 (16/11/2022)

To start day 3 of the Induction program Mr. Akshay Kokil, Scientist DRDO Pune took the session on Future of Career – Divine & Demoniatic: Need of Corporate World session his practical view on the same was well received by the audience. The second session was taken by Mr.Sachin Panase, Head Car Interior, Tech Mahindra about Inner potential Outer Dynamism, he shared his valuable insights on core Inner potentials. The students were then given an hour's break high as folloed by the session conducted by Soft skills- this session helped the students check the English proficiency Test.To end off day 3 on a pleasant note Sports and fun events were conducted by Prof.Ruhikesh Londhe and team.



Felicitation of Mr. Akshay Kokil by Prof. Dipannita Mondal ,Head Department of First Year Engineering, Dr. Alpana Adsul, Head, Department of Computer Engineering and Dr. Latika Desai, Head Department of Artificial Intelligence and Data Science



Speaker Mr. Akshay Kokil , Prof. Dipannita Mondal ,Head Department of First Year Engineering, Dr. Alpana Adsul, Head, Department of Computer Engineering and Dr. Latika Desai, Head Department of Artificial Intelligence and Data Science on dias



Expert Session conducted by Mr. Akshay Kokil Sir



Felicitation of Mr. Sachin Panase Sir by Prof. Dipannita Mondal, Head-First Year Engineering.



Fun Events : Singing



Fun Events : Housie



Softskill training by Prof. Lavina Sharma for First Year Engineering Students

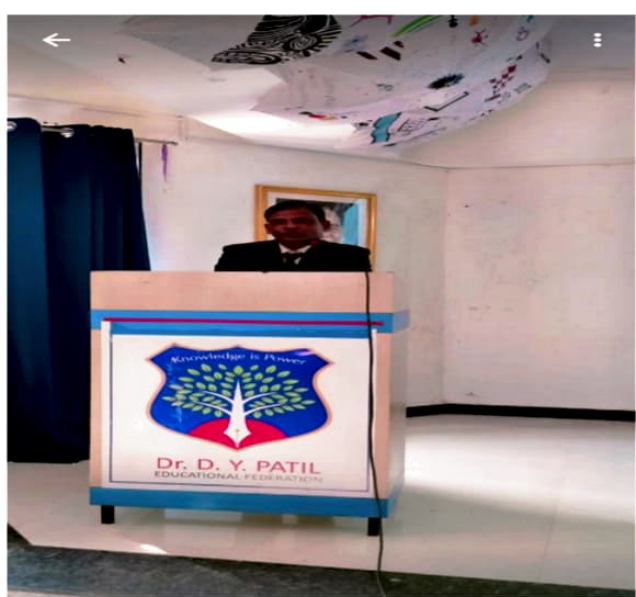


Softskill training by Prof. Lavina Sharma for First Year Engineering Students

Day 4 (17/11/2022)

It was then time to kick off Day 3 as the students arrived well in time; to start the event Mr.Sachin Naik, Senior Faculty, Art of Living, Pune conducted refreshing session of Yoga and presented the Art of Living. After this a session on -Be ready with next generation skill was conducted by Prof. Remya Nair, Director –Learning & Development, GYMHA (Australia).

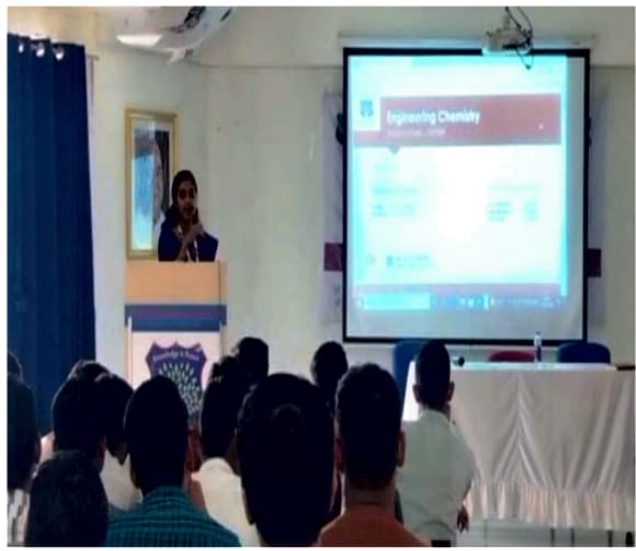
Post lunch Introduction to the first-year engineering subjects and syllabus was given by the respective subject teacher of the. Students could interact and resolve their preliminary ambiguities regarding the subjects. After the subject presentation the ERP- Activity Information Hands-on Training presented by Reddy Sir gave the students practical insight into the course. To end the day Prof. Pratiksha Patil and team, led the fun events.



Subject Presentation by Prof. Venkatesh Dange Sir



Subject Presentation by Dr. Anirvan Gupta Sir



Subject Presentation by Prof. Sherin Kurian



Subject Presentation by Prof. Sheetal Hotkar

Day 5 (18/11/2022)

The final day of the five-day induction program had a lot to offer for the students as it unfolded. To start the event a session on How to handle rejection was conducted by Prof. Dipannita Mondal, Head Department of First Year Engineering. This was followed by a session on Placements by Mr. Adinath Giri.

Post lunch a session on Lifeskills was conducted by Dr. Sachin Surve, Coordinator Faculty Development Centre, UGC HRDC, and SPPU. To finally end the astounding induction program, Outdoor sports event were conducted by Prof. Rushikesh Londhe and team. It was followed by much awaited Valedictory function and prize distribution function.



Expert Session by Prof. Dipannita Mondal, Head Department of First Year Engineering



Felicitating of Mr. Adinath R. Giri by Prof. Dipannita Mondal, Head Department of First Year Engineering



Speaker – Mr. Adinath R. Giri with the team



Outdoor Games - Volleyball



Felicitation of Dr. Sachin Surve Sir by Prof. Dipannita Mondal ,Head Department of First Year Engineering



Expert Session by Dr. Sachin Surve Sir



Received first prize for Chess competition



Received First prize for carrom competition



First Year Engineering Faculties



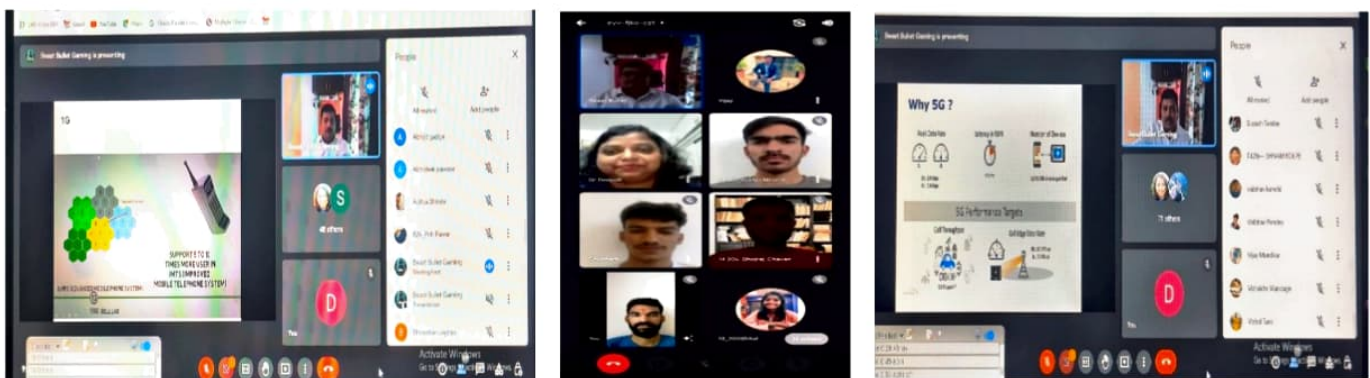
First Year Engineering Students 2022-2023 Batch

Computer Engineering and Artificial Intelligence and Data Science Faculty published research papers along with the B.E.(Computer Engineering) students in various journals.

Some of the topics are as follows:

- **A Review Paper on Two Way Sign Language Recognition for The Deaf and Dumb**
- **Multipurpose Security Application for Action Detection and Alert Generation**
- **Biometric Based Metro Ticketing System Using Image Processing**
- **Automated Bank Cheque Verification Using Image Processing**
- **Review paper on Algorithm Visualizer**
- **Survey on Smart Farming using soil health card based on machine learning**
- **Real Time Object Detection Using Raspberry pi**
- **Review on Decentralized E-Voting System Using Block chain**
- **Disease Prediction Using Machine Learning Algorithms**
- **Cyber Security Threat Detection Using Machine Learning Approach**
- **Secure file storage on cloud using hybrid cryptography**
- **A review on different technical approaches of sign language recognition**

Mr. Nilesh Wankhede, Principal, Zonal Telecom Training Center, BSNL, Chinchwad, Pune delivered the Expert session on "**Mobile Network Evolution GSM to 5G**" to B.E.Computer students. Coordinated by **Dr. Deepali Sale.**



One-week workshop on **“Object Oriented Programming and Industry Prospects”** for SE Computer and AI&DS Engineering students from 28th September 2022 - 2nd October 2022, **Guest speaker: Mr. Kshitij Deshpande** (Developer, Siemens, Pune, MH.). Coordinated by **Ms. Sarojini Naik and Ms. Pratima Chougule.**



On 11th and 12th November **Mr. Adinath Giri** from Giri's TechHub Training conducted training and placement activity of BE (Computer Engineering students).
Company Specific Training – TCS, Capgemini, Wipro Specific
Trainer addressing students about various **company specific regulations and interview processes.**





AMCAT (Aspiring Minds Computer Adaptive Test) Training session



Mr. Ankush Shrivastava Addressing the students.

The Invisible, yet Incredibly Fast, Ripples in Space - 'Gravitational Waves'

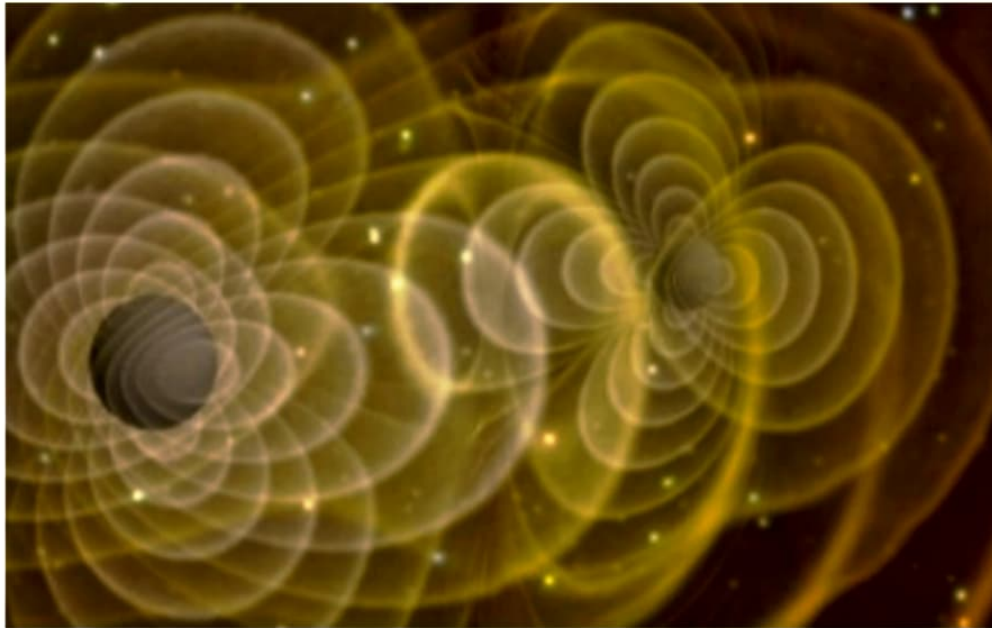


Figure 1: Illustration of gravitational waves produced by two orbiting black holes. [Credit: Henze/NASA]

What are Gravitational Waves?

Gravitational waves are ripples in space-time (the fabled "fabric" of the Universe) caused by massive objects moving with extreme accelerations: some of the most violent and energetic processes in the Universe.

In outer space, that means objects like neutron stars or black holes orbiting around each other at ever increasing rates, or stars that blow themselves up.

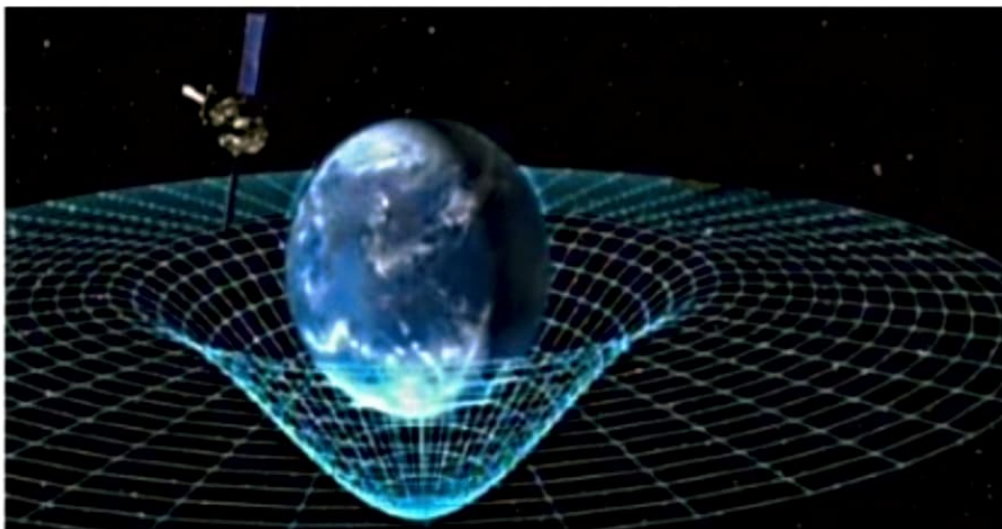


Figure 2: Two-dimensional illustration of how mass in the Universe distorts space-time. [Credit: NASA]

Production of Gravitational Waves

The strongest gravitational waves are produced by cataclysmic events such as colliding black holes, supernovae (massive stars exploding at the end of their lifetimes), and colliding neutron stars. Other waves are predicted to be caused by the rotation of neutron stars that are not perfect spheres, and possibly even the remnants of gravitational radiation created by the Big Bang.

Why detect Gravitational Waves?

Historically, scientists have relied almost exclusively on electromagnetic (EM) radiation (visible light, X-rays, radio waves, microwaves, etc.) to study the Universe.

Some are trying to use subatomic particles, called neutrinos, as well. Each of these 'messengers' of information provides scientists with a different but complementary view of the Universe.

Gravitational waves, however, are completely unrelated to EM radiation. They are as distinct from light as hearing is from vision. Imagine humans were a species that only had eyes and no ears. You can learn a lot about the world around you simply by studying the light from objects. Then one day, someone invents something they call an ear. This device senses vibrations in air or water that you could not have known existed before. This ear opens up an entirely new realm of observation that you didn't have access to simply by studying electromagnetic radiation!

More importantly, since gravitational waves interact very weakly with matter (unlike EM radiation, which can be absorbed, reflected, refracted, or bent), they travel through the Universe virtually unimpeded, giving us a clear view of the gravitational-wave Universe. The waves carry information about their origins that is free of the distortions or alterations suffered by EM radiation as it traverses intergalactic space.

Submitted By:



Dr. Anirvan Gupta
Assistant Professor, Physics and
Business Communication

आशा ...

वाचणं हे पेरणं असतं
तर लिहिणं म्हणजे उगवणं,

उगवण्याची चिंता करीत
बसण्यापेक्षा पेरणी सुरू करा,

एक दिवस तुमचं उगवलेलं धान्य
लोक पेरणीसाठी घेऊन जातील.

ज्याची बाग फुलून आली
त्यांनी दोन फुले घावीत

ज्यांचे सूर जुळून आले
त्यांनी दोन गाणी घावीत,

ज्यांच्या अंगणात झुकले ढग
त्यांनी ओंजळभर पाणी घावे

आपले श्रींमत हृदय त्यांनी
रिते करून भरून घ्यावे,

आभाळाएवढी ज्यांची उंची
त्यांनी थोडे खाली यावे

मातीत ज्यांचे जन्म मळले
त्यांना खांद्यावरती घ्यावे.

प्रा. ऋषिकेश लोंढे
(प्रथम वर्ष)

"Bhai-Lang"

Chaitanya Umesh Rasane
(SE Div - B)

"Bhai-Lang" is a new programming language developed by two Indian developers - Rishabh Tripathi from Groww and Aniket Singh from Amazon. The code of the programming language begins with "hi bhai", while it ends with "bye bhai". Netizens are amused by this toy programming language.

```
5     bhai ye hai a = 3;
6     bhai ye hai b = 0;
7
8     jab tak bhai (b < 5) {
9         bol bhai b;
10
11        agar bhai (b == a) {
12            bol bhai "b is equal to a";
13        } nahi to bhai (b == 0) {
14            bol bhai "b is equal to zero";
15        }
16
17        b += 1;
18    }
19
20    bye bhai
```

"Bhai-Lang", a new programming language is going viral on social media. It is a toy programming language. "Bhai-Lang" is created by two Indian developers - Rishabh Tripathi from Groww and Aniket Singh from Amazon. The programming language is written in Typescript.

In Hindi, brother is called "Bhai". The programming language combines the Hindi word "bhai" with English words like "hi" and "bye". Like other programming languages, "Bhai-Lang" too has syntax. As per the official website of the language, all codes written inside these tags will be valid while everything outside of it will be ignored. The code begins with "hi bhai", while it ends with "bye bhai". If there is any error, "Arre Bhai Bhai Bhai!!!" message will appear.

Mindfully trained self-compassion and self love

Yogeshwari Pawar
SE Div - B

By combining mindfulness with self-compassion, Profs. Neff and Germer – who works at Harvard Medical School in Boston, MA – have developed a technique called “Mindful Self-Compassion [...] Training,” which they have tested in clinical trials with heartening results.

In the words of the researchers, “Self-compassion says, ‘Be kind to yourself in the midst of suffering and it will change.’ Mindfulness says, ‘Open to suffering with spacious awareness and it will change.’”

The program comprises various meditations, such as “loving-kindness meditation” or “affectionate breathing,” and “informal practices for use in daily life,” such as the “soothing touch,” or the “self-compassionate letter writing,” which have all been shown to help study participants develop the habit of self-compassion.

According to the researchers, practicing these techniques for 40 minutes every day for 8 weeks raised the participants’ levels of self-compassion by 43 percent.

The mindfulness exercises that one can do to develop self-compassion are various. One simple exercise involves repeating the following three phrases during times of emotional distress:

“This is a moment of suffering,” “Suffering is a part of life,” and “May I be kind to myself.” These three mantras correspond to the three elements of self-love that we introduced earlier.

In her book *Self-Compassion*, Prof. Neff details many more useful mantras and guides the reader to develop their own. Also, her website self-compassion.org offers a wide range of similar exercises, which are accessible for free.

Dr. Helen Weng – from the Center for Healthy Minds at the University of Wisconsin-Madison – and colleagues have also developed a range of similar exercises that you can access here, which are also free of charge.

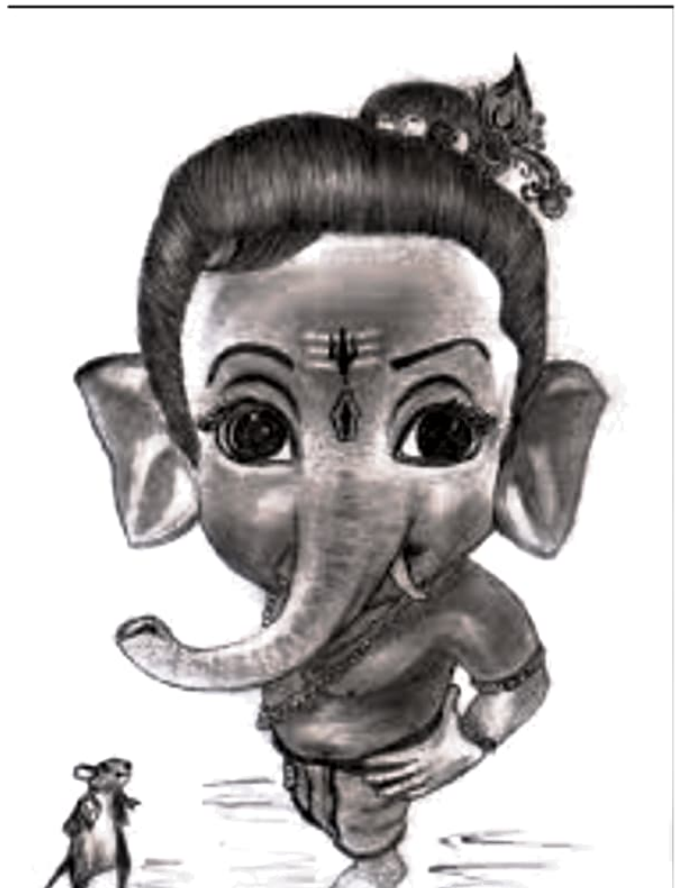
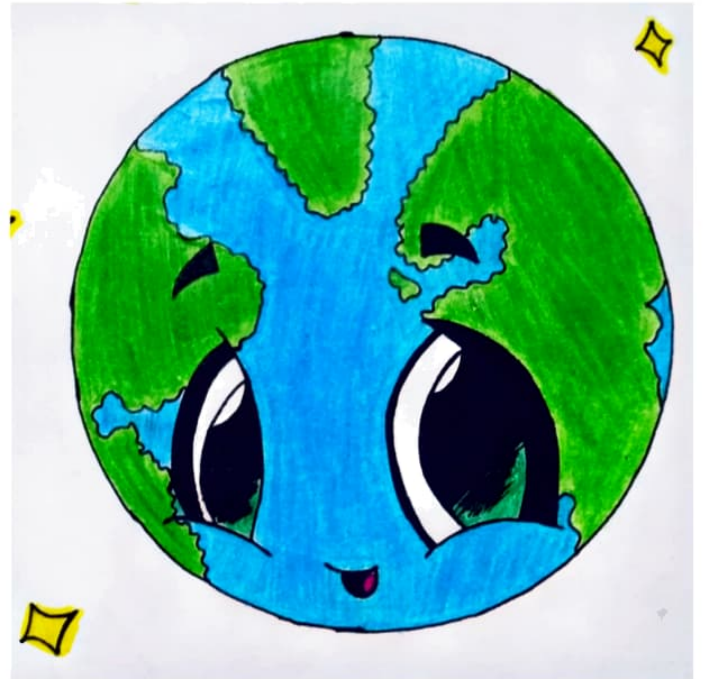
If you feel a bit skeptical about the benefits of mindfully repeating mantras to yourself, you may benefit from knowing that research backs them up.

Such mindful exercises in self-compassion have been proven to lower levels of the stress hormone cortisol and increase heart rate variability, which is your body’s physiological ability to deal with stressful situations.

Silent mind always help you in every situation.

ARTS

Vijay P. Chavan
(Div-A FE)



Congratulations to asmita and Guari, Department of Mechanical Engineering.....



Receiving JOB OFFER LETTER of Asmita Malvi and Gauri Khedekar who are Placed through Campus Placement at MORAYA PACKAGING INDIA PVT LTD, Pune (Mr. Tushar Satkar, MD and Mr. Mukund Madhav, Director, Marketing & Strategy)

Congratulations students for getting placed....



1. Sanket Sharad Patil

Company Name:-TCS Digital (7 LPA)

2.Nikita Sanjay Patil

Company name:- TCS Digital (3.6 LPA)

EXTENSIA.

3.Shital Kumar Arikar

Company Name:-Time Infocom (3.5 LPA)

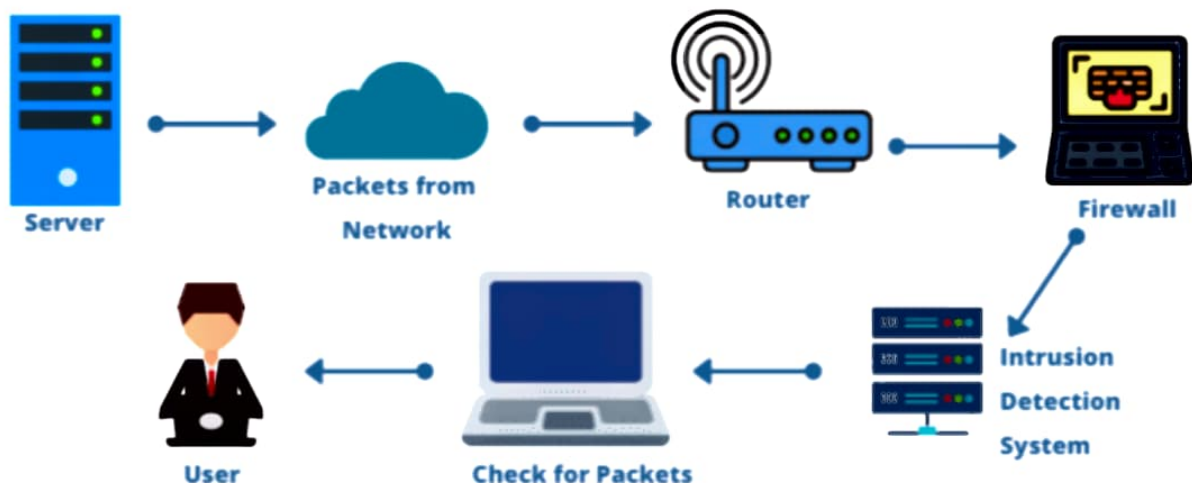
Congratulations to Head, Department of First Year Engineering Prof. Dipannita Mondal....

Prof. Dipannita Mondal, Head, Department of First Year Engineering has successfully published her Original Research Work in "IET Communications published by John Wiley & Sons Ltd on behalf of The Institution of Engineering and Technology" with the title "Development of intrusion detection system using machine learning for the analytics of Internet of Things enabled enterprises"



Prof. Dipannita Mondal
(Head, Department of First Year Engineering)

INTRUSION DETECTION SYSTEM



Quote of the Month

**"WEAR YOUR FAILURES AS
A BADGE OF HONOUR."**

-Sundar Pichai



★★★