



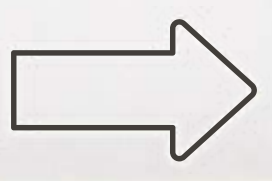
Departmental *outlet*

Computer science

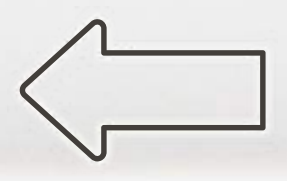
COMPIZEN

NEWSLETTER

2021-2022



The First Edition



Meet our team



Dr. Monika Bhatnagar
Faculty Co-ordinator



Goldi Jarbais
Faculty Co-ordinator



Pranav Tiwari



Paras Billore
Designer



Pallavi



Reshu Waghmare



Shivam Kumar

Director's MESSAGE

A departmental magazine is an eloquent way to represent the heart and mind of a department. It gives me immense pleasure to congratulate the Department of Computer Science and Engineering for the release of their half yearly newsletter "Compizen 22".



I am sure that the newsletter will not only bring the glimpse of the department but will also benefit the students with the knowledge provided through the articles and give the pleasure through arts and literary content.

I once again congratulate the team of "Compizen 22" for it's outstanding work.

Dr. Rajesh K. Shukla
Director , OIST

HOD'S MESSAGE

Welcome to the Department of Computer Science and Engineering. I am happy 'that you have chosen to find out more about our department.



We recognized that this newsletter is designed for the wide range of students who often seek specific information. Given this, we had compiled a set of useful information. I hope you will find the information helpful. We always appreciate your input as to how we might make the materials more informative and enlightening.

Dr. Shrikant Zade
HOD ,Computer Science & Engineering

Our Department's

PROMINENT FACULTIES



Dr. Rajesh K Shukla



Dr. Shrikant Zade



**Dr. Sanjeev Kumar
Sharma**



Prof. Atul Barve



Prof. Sreeja Nair



Dr. Farah Haneef



Dr. Deepshikha Patel



Dr. Monika Bhatnagar



ORIENTAL INSTITUTE OF SCIENCE & TECHNOLOGY,
BHOPAL

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

VISION

To produce technically and ethically competent graduates, fulfilling the needs of industry standards for socio-economical development of the nation.

MISSION

- To build strong, teaching, learning and ethical environment for imparting quality education.
- To provide an environment to enhance ethics, analytics, innovations, leadership capabilities and team spirit for serving industry, higher education and entrepreneurship.
- To develop industry institute interaction program and provide exposure to R&D to bridge the gap between theory and practical learning.



ORIENTAL INSTITUTE OF SCIENCE & TECHNOLOGY, BHOPAL

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

PROGRAM EDUCATIONAL OBJECTIVE

- Able to apply concepts of mathematics, science, hardware and software aspects of computing to Computer Science & Engineering.
- Able to design and develop interdisciplinary and innovative hardware and software solutions.
- Able to inculcate effective communication skills, team work, ethics, leadership in preparation for a successful career in government, academia, industry and R & D organizations..

Post pandemic behaviour of College Students

In my career till now I have met a very large number of students with varied personalities and behaviour. Nothing has become a common trait of almost all the students. But in the recent scenario two common traits are making their way not only amongst children but also young adults like college going students. This dangerous trait is carelessness and laziness. This was the COVID Pandemic's gift to the students through lockdowns and precautions.

Online classes gave freedom to students to join their classes at their will. Most of the students preferred to sleep after joining the class. They had no desire to learn from the one on the other side of the network. This led to lack of knowledge in their subjects. This lack of knowledge was enhanced by the changed examination procedure. Now most of the exams were conducted for Multiple Type Questions where answers were easy with a quick search on any search engine. There was no need to understand the concept or learn the subject. The extensive study that opened the minds of students was lost. All these factors prevailing for two long years led to the group of students whose brain had lost the ability to think, analyse, develop or create especially in technical education. Since they knew that they would not be harmed for not learning their concerned subjects they became lazy and cared very little about their education. The worst thing about online classes was that students wrote very little and became very lazy for writing.

Post pandemic when the classes were all offline and the students were forced to write to complete their subjective responsibilities. This irritated the students and since they had not studied several subjects they faced a lot of problems. Most of the first year students did not know how to write their answers because they had not written for their class XII examinations too. When they were forced to comply with their current mode of education most of the students faced anxiety and depression. This situation was prevalent among other students too.

With their changed situation it was difficult for them to cope with it resulting into depression and anxiety. In such a situation what is required is a little understanding of their state of mind by their parents and their teachers. Instead of judging them or mocking their situation the elders in their life should be polite and caring to help them out of their predicament. It can be best done by putting themselves in their shoes and treating the students in the manner they would expect themselves to be treated. There is no doubt in the belief that with the changing time situation will be more comfortable for them and they will certainly perform well.

~Dr. Monika Bhatnagar

BANNING OF MOBILES IN EDUCATIONAL INSTITUTIONS

The basic question here is:
"SHOULD STUDENTS CARRY MOBILE PHONES"? The bigger question is :

"SHOULD THE PARENTS GIVE THEIR CHILDREN MOBILE PHONES"

Mobile phones enable near and dear ones to be in touch whenever they want and need to. But on the other hand, temptation beckons juvenile users. Students should go to school and colleges to study and not to enjoy. Parents strive hard to give a good education to their children and reform their life. Mobiles however important they may be, though keep one connected are not impossible to avoid. The danger is far greater than its benefits in the form of unwanted SMS, unsolicited pictures, movies etc. Mobile phones affect studies and corrupts the mind. Most of the students misuse mobile phones in colleges. They distract the concentration of the lecturers. The kids sporting costly mobile phones in their hand becomes a big reason for inferiority complex among the poor or middle class students. Uniformity among the students should be compulsory, schools and colleges are not the place for the students to show off with what they have. It is unfair for other students that they should use this platform for exhibiting expensive items. It is not only the right of the educational institutions to ban cell phones in its premises but also its duty to do everything possible to ensure that teaching functions in a civilized environment. The entire country requires discipline in all fields of life. Disciplinary codes like banning mobiles are important in school colleges etc.

~PROF. PARUL KHATRI



What is Blockchain?

~ Pranabh Kumar Asati
CSE 'B'

What is Blockchain?

A blockchain is a constantly growing ledger which keeps a permanent record of all the transactions that have taken place in a secure, chronological, and immutable way.

Let's breakdown the definition,

Ledger: It is a file that is constantly growing.

Permanent: It means once the transaction goes inside a blockchain, you can put up it permanently in the ledger.

Secure: Blockchain placed information in a secure way. It uses very advanced cryptography to make sure that the information is locked inside the blockchain.

Chronological: Chronological means every transaction happens after the previous one.

Immutable: It means as you build all the transaction onto the blockchain, this ledger can never be changed.

A blockchain is a chain of blocks which contain information. Each block records all of the recent transactions, and once completed goes into the blockchain as a permanent database. Each time a block gets completed, a new block is generated.



CLOSED ECOLOGICAL SYSTEMS (CES)

Closed ecological systems (CES) are ecosystems that do not rely on matter exchange with any part outside the system.

The term is most often used to describe small manmade ecosystems. Such systems are scientifically interesting and can potentially serve as a life support system during space flights, in space stations or space habitats.[1]

In a closed ecological system, any waste products produced by one species must be used by at least one other species. If the purpose is to maintain a life form, such as a mouse or a human, waste products such as carbon dioxide, feces and urine must eventually be converted into oxygen, food, and water.

A closed ecological system must contain at least one autotrophic organism. While both chemotrophic and phototrophic organisms are plausible, almost all closed ecological systems to date are based on an autotroph such as green algae.

A closed ecological system for an entire planet is called an ecosphere.[2][3]

Man-made closed ecological systems which were created to sustain human life include Biosphere 2, MELiSSA, and the BIOS-1, BIOS-2, and BIOS-3 projects.[4]

Bottle gardens and aquarium ecospheres are partially or fully enclosed glass containers that are self-sustaining closed ecosystems that can be made or purchased. They can include tiny shrimp, algae, gravel, decorative shells, and gorgonia.



Hyper Automation

Would you believe me if I told you in a few years AI would be given equal rights as humans? It's already happening , have you heard about Sophia? She's a humanoid robot which is powered by AI. She has her own thoughts, emotions, can see and speak like humans, in 2017 she was granted legal citizenship in Saudi Arabia.

HyperAutomation involves the use of multiple technologies like Artificial intelligence (AI), Machine Learning and Automation technologies such as Robotic Process Automation (RPA) to automate as many business processes as possible.

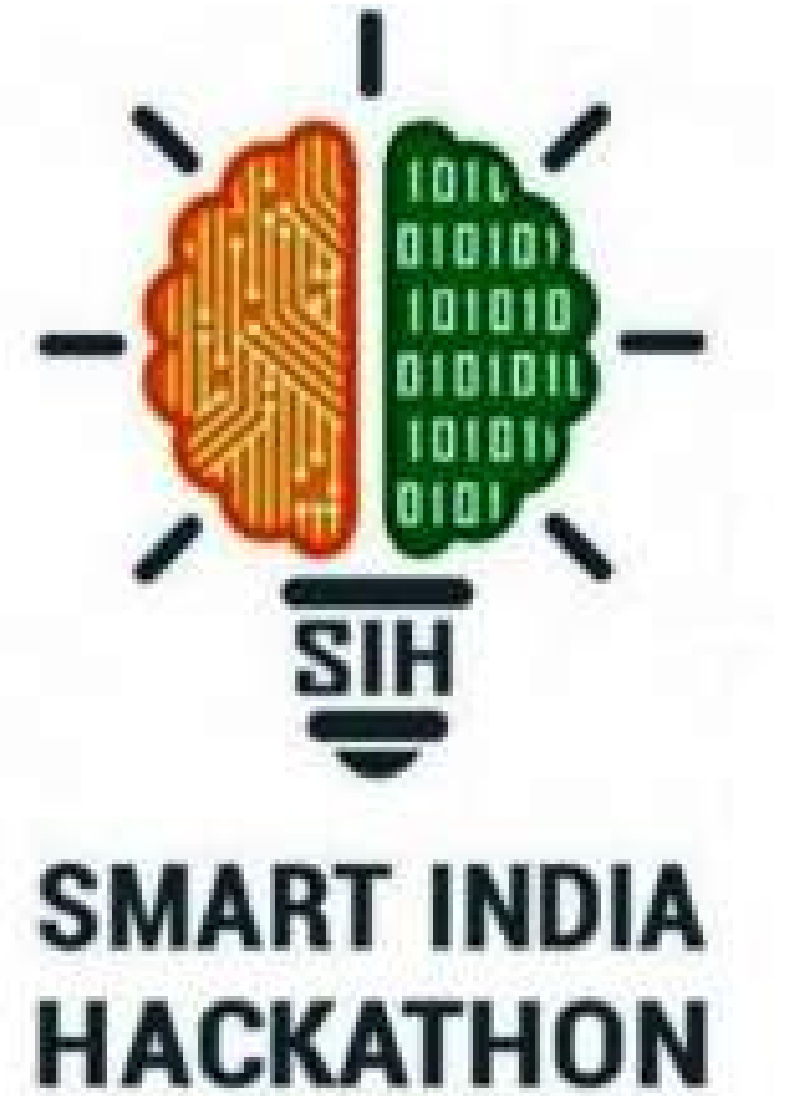
According to business wire, Seventy percent of RPA professionals say their organization will hire more developers in the next year. According to Forbes, the use of AI in many sectors of business has grown by 270% over the last four years.

~Paras Billore
CSE 'B'

SMART INDIA HACKATHON

Smart India Hackathon is a non-stop digital product development competition, where problems are posed to technology students for innovative solutions. It:

- Harnesses creativity & expertise of students.
- Sparks institute-level hackathons.
- Builds funnel for 'Startup India' campaign.
- Crowd-source solutions for improving governance and quality of life.
- Provides opportunity to citizens to provide innovative solutions to India's daunting problems.



Idea Submission Process

- Once problem statements are unveiled to students on the portal, they are supposed to form a team of 6 members including at least one female member as mandatory.
- The college SPOC will first register on the SIH portal. SPOCs must upload their college authorization letter while completing the registration formalities. Please note only one SPOC is allowed to register in the portal.
- The teams can come up with their own ideas against the problem statements and submit them to the nominated faculty or SPOC of their own college.
- Colleges are recommended to hold Internal Hackathons (hackathon competitions at individual college level) for teams that have submitted ideas.
- Each college who has submitted ideas for their teams and also new colleges who have not registered are invited to nominate 4 more teams.

Lightweight Small Arms Technologies

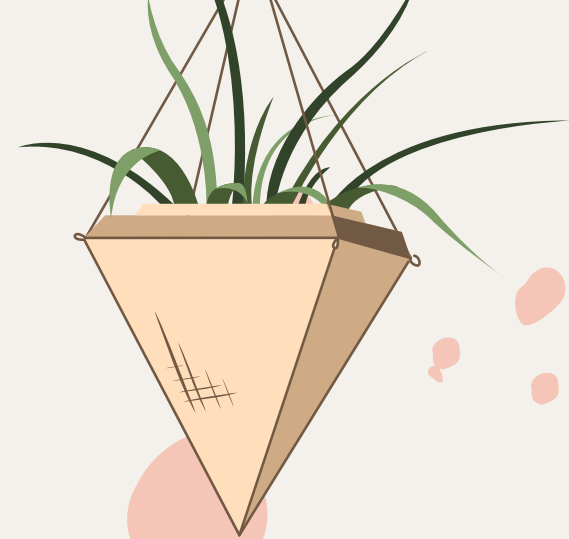
The Lightweight Small Arms Technologies (LSAT) program is funded by the U.S. Joint Service Small Arms Program, with the goal of significantly reducing the weight of small arms and their ammunition.[1] Following a series of military programs to investigate advances in small arms (SPIW, Future Rifle, ACR, OICW), the LSAT program is the US military's latest project to replace existing US small arms. Tactical concepts and the research from the previous small arms programs indicates that lightening small arms is the first significant step towards increasing soldiers' lethality and survivability.

Achievements

- **Light machine gun**
- **Assault rifle**
- **Ammunition**
- **Cased**
- **Caseless**

~Shivam Kumar

Batch 2017-21



Our Alumni's

STUDENTS PLACED IN MORE THAN 4 COMPANY'S



Ayush Dashore



Shiva Pillai

25 LPA



Saumya Chaudhary



Shubham Dalal



Siddhant Jain

& Many more...



Students Placed in more than 4 company's

- Harshit Malviya
 - Anamika Tiwari
 - Anuj Yadav
 - Aryan Nigam
 - Aakansha Bhadauriya
 - Abhas Asati
 - Ekta Dubey
 - Nisha Patel
 - Nishant Nigam
 - Palak Bisen
 - Saurabh Chaudhari
 - Shantanu Gupta
 - Shruti Sharma
 - Sneha Tiwari
 - Sourabh Pawar
 - Srashti Deshmukh
 - Vikrant Singh Tomar
 - Aman Kumar Yadav
 - Amisha Pagare
 - Anand Kumar
 - Apoorv Gupta
 - Aryan Nema
 - Divya Kurothe
 - Gayatri Agnani
 - Ishita Parashar
 - Jaydeep Dobane
 - Lakshya Gupta
 - Lisha Ahuja
 - Nishchay Trivedi
 - Prachi Saini
 - Rohan Mishra
 - Sachin Pasi
 - Sagar Sharma
 - Sakshi Asati
 - Saransh Pendharkar
 - Tushar Katariya
 - Vidushi Pawar
 - Yuvraj Chandrawanshi
- & many more...



STUDENT ACTIVITY RECORD

Department of Computer Science & Engineering--					Department of Computer Science & Engineering				
SESSION 2021-2022					SESSION 2021-2022				
S. No.	Name of Topic	Action Taken	Day-Month-Year	Resource Person with Designation					
					12	An Introduction to Blockchain Know how Blockchain is changing your world	Webinar	10-12-2021	1. Mr. Raj A Kapoor 2. Mr. Rajiv Bordoloi
1	Networking to Networking"	Seminar	17-08-2021	Dr Aditya Abhyankar Director School of Technology SP Pune University, Maharashtra, India	13	Overcoming Examinophobia	Webinar	13-01-2022	Mr.Pradeep Mandal Life Skill Consultant
2	Webinar on Artificial Intelligence Drivers for Growth in Business and its Application	Seminar	24-08-2021	Mr Arpit Yadav	14	Human Values and Its Importance	Webinar	15-01-2022	Dr.Ganesh P.Shukla Assistant Professor Guru Ghasidas Vishwavidhyalya Bilaspur,C.G.
3	Unblocking the blocks in Block Chain Technology Concept and Simulation, using MHRD-IIT Block Chain Virtual Lab"	Seminar	21-08-2021	Dr Rahul Johari Assistant Professor		Quiz Competition Azadi ka Arit Mahostav		22/01/2022	
4	What is Software Engineering Anyway?	Seminar	28-08-2021	Dr Sridhar Chimalakonda Assistant Professor		Pre Placement Talk		19/02/2022	Suparshaw Singh
5	Compute, Compute, Compute—How Hard Can It Get?		04-09-2021	Dr. Meena Mahajan Professor		Pre Placement Talk		19/02/2022	Tashmiya Anshari
6	Security and Trust		11-09-2021	Kaarthik Sivakumar		Workshop on "Ethical Hacking and Cyber Security"		25-26/02/2022	Mr. Mudassir Hashmi Senior Technology Evangelist Cybrom Technology Pvt Ltd,Bhopal



STUDENT ACTIVITY RECORD

									Ltd,Bhopal
7	How to Write a Good Research Paper		18-09-2021	Dr. R Venkateswaran (Venki)		Expert Talk(Science Day) : Science & Technology : Present and Future		28/02/2022	Dr.Rutvi Shah Assistant Professor , CPICA, Ahmedabad .
8	Efficient processing of range queries		25-09-2021	Dr. Madhavan Mukund		Alumni Talk		9/3/2022	Saumya Chaudhary,Vivek Verma
9	Webinar:,"Algorithmic Puzzles"	Seminar	16-10-2021	Dr. Neeldhara Misra Assistant Professor		Industrial Visit Sect 4A, CRIPS, Shamla Hills Bhopal		14/03/2022	
10	Webinar:"Cloud of Things"	Seminar	23-10-2021	Dr. Nisha Chaurasia, Assistant Professor		Industrial Visit Sect 4B, CRIPSShamla Hills Bhopal		16/03/2022	
11	ACM India Celebration of Women in Computing 2021 [AICWIC 2021]		30-10-2021	Dr. Bushra Anjum Dr. Sriparna Saha Dr. Litika Dey Dr. Aruna Malapati Dr. Renuka Sindhgatta Rynaa Grover Dr. Anubha Gupta		Workshop by CISCO Networking Academy and NIIT Foundation on "Cyber Security"		25-26/03/2022	Mr.Sushit Soni, Trainer at CISCO Networking Academy NIIT Foundation ,Delhi
						Expert Talk " A Glimpse into Real- World Tech" under Programming Club		28/03/2022	Md. Sameer Khan, Principal Engineer, The Internet Folks
						Pre Placement Talk		28/03/2022	Tajes Wadbudhe





LAB

Computer science and
engineering



Seminar hall



DEPARTMENT OF
COMPUTER
SCIENCE
& ENGINEERING



STUDENT ACHIVEMENT



Pratham Jain

- *UCMAS Abacus International Compitetion*
- *UCMAS Abacus National Compitetion*

Ritik Meena

- *Basketball - CAO (U17/U19)*
- *Cricket - National (U17)*

Adarsh Singh Rajput

- *National University games west zone / National Game - kabaddi*

Kushal Tripathi

- *Judo (National)*

Shivam Kumar

- *Badminton (Division)*

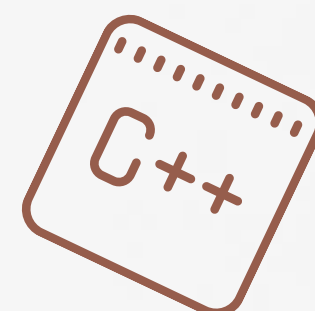
Paras Billore

- *Volleyball (Division)*



Departmental *outlet*

Computer science



THANK YOU

Designed & Compiled By

PARAS BILLORE

Ideas & Sortings

Under Co-ordination

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DR. MONIKA BHATNAGAR
PROF. GOLDI JARBAIS

Under Guidance

DR. SHRIKANT ZADE



Meet you in next Edition

