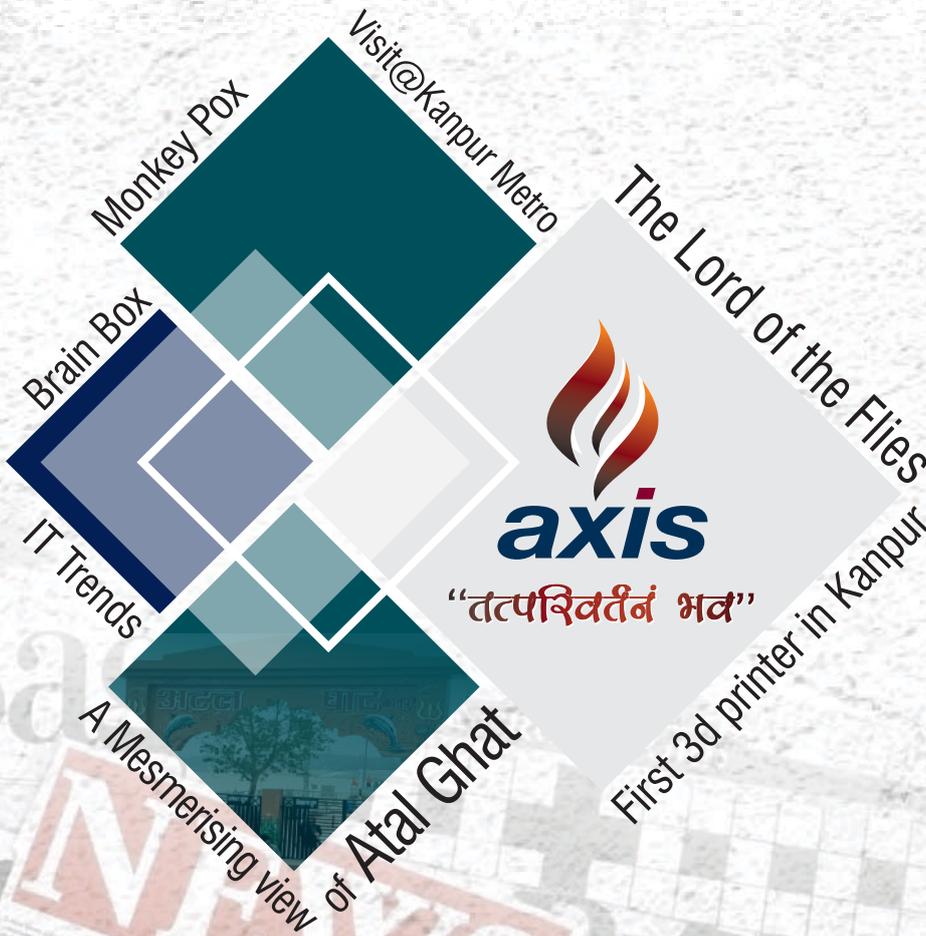


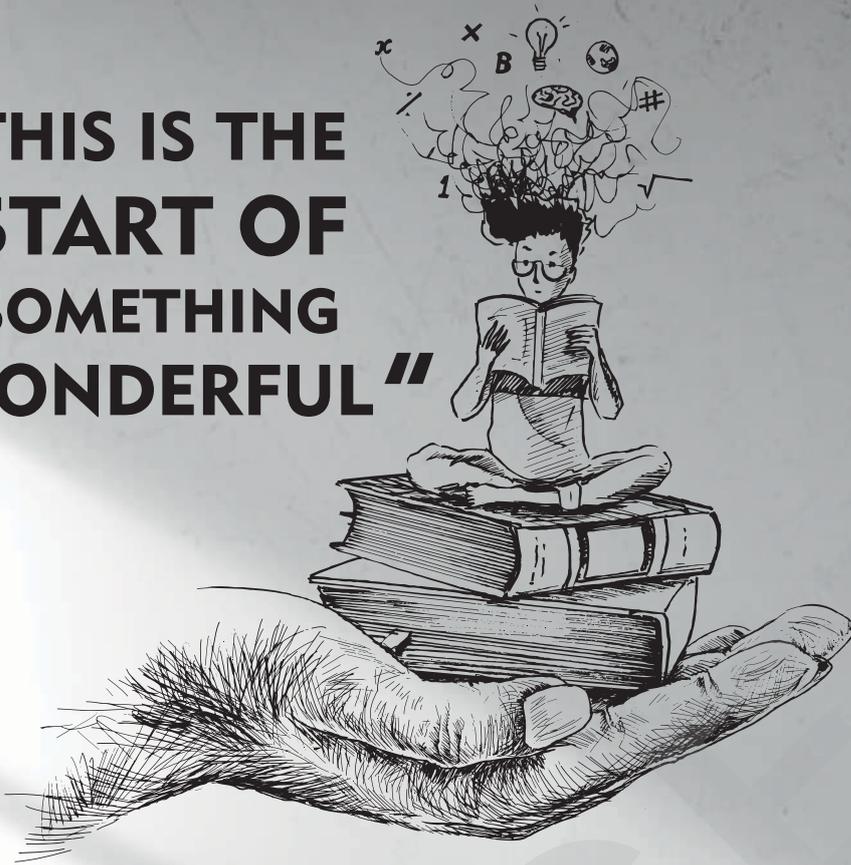
OXYGEN

THE CAMPUS NEWSLETTER

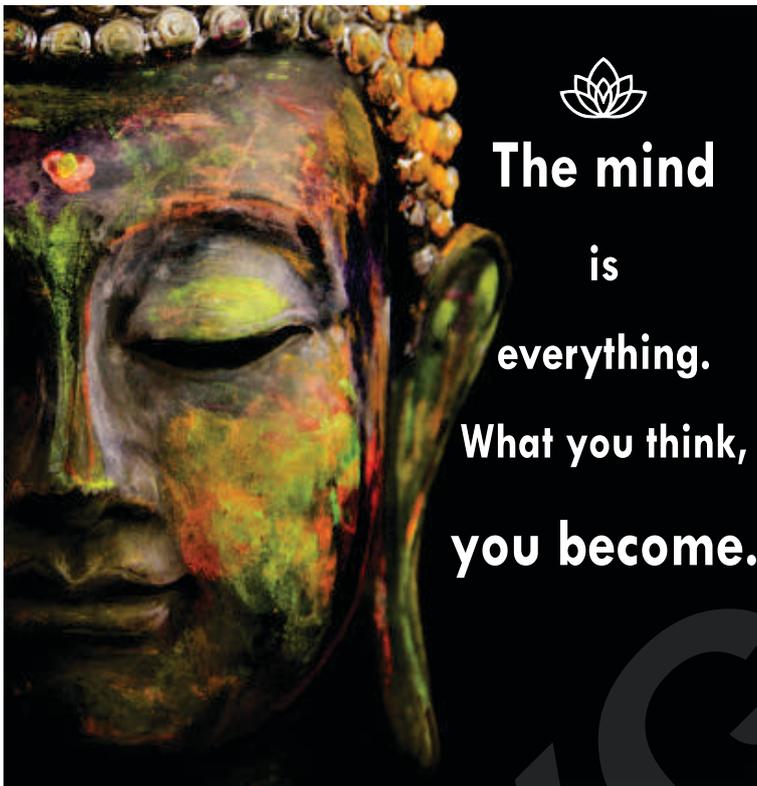
SEPTEMBER 2022



**“THIS IS THE
START OF
SOMETHING
WONDERFUL”**



OXFORD THE CAMPUS NEXT




The mind
 is
everything.
What you think,
you become.

IN THIS ISSUE

Upcoming Events	4
Editor's Note	5
Director's Message	6
News	7
Students	8-10
Events @axis	11-12
Faculty	13-15
Tech Digest	16
Research Review	17-18
Innovations	19
Know Your City	20-21
Book Review	22
Perspective	23-25
Brain Box	26

VISION

To become an institution of repute in technical and professional education by providing career, research oriented and value based education to serve the society.

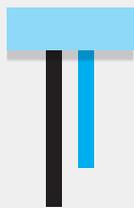
MISSION

- To equip with the latest technologies to be globally competitive professionals.
- To be a learner centric institute imbibing experimental innovation and lifelong learning skills, addressing societal problems with high ethical values for nation building.
- To inculcate entrepreneurial spirit in addition to qualities of leadership, professionalism, corporate understanding and executive competence.
- To deliver changing demands of industry and academia through our stakeholders.

The publication of Oxygen will be indeed a milestone, though reaching milestone gives pleasure, but we know a milestone is not the destination. I would wish that you keep exploring and attaining new destinations beyond the utmost bound of human thought, We can not always build the future for you but yes we can build you for the future.

I dream about the axis as my students imbued with liberal human values, impeccable standards of speech and conduct, audacity to put their own thoughts, resilient, motivated. I hope creative writing, achievements, and activities in Oxygen will be in sync with my dream and motto of TOMORROW FIRST.

Raj Kushwaha
 Chairman & MD - Axis Group



EDITORIAL BOARD

Editor-in-Chief
Ms. Komal Kushwaha
Director - Student Welfare Activity Cell (SWAC)

Associate Editor
Ms. Sarika Shukla
Assistant Professor, PDP Dept.

Members of The Board

Ms. Shail Dubey (Asst. Prof., AITM)
Mr. Prerit Dwivedi (Asst. Prof., AITM)
Ms. Anjali Tripathi (Asst. Prof., AIP)
Ms. Sadaf Arfi (Asst. Prof., AIP)
Mr. Swarnim Gupta (Asst. Prof., AIHE)
Mr. Asit Pandey (Asst. Prof., AIA)
Ms. Shalini Singh (Asst. Prof., AIFT)
Mr. Ashish Shukla (Asst. Prof., AIPM)
Ms. Kirandeep Kaur (Asst. Prof., PDP Dept.)
Mr. Sooraj Diwakar (Graphic Designer)

Call for the Articles for the upcoming Newsletter

We'd like to extend an invitation to everyone to submit articles and other informative content for inclusion in the next issue. Please send your feedback at

»»» newsletter@raywings.in

A token of gratitude to all the dignitaries; Directors, HR, HODs and Principals who spared time and contributed in this issue.

Upcoming Events

Department Name	Event/Competition Name	
AITM- B.Tech (CS/IT)	Investiture Ceremony of Sangank Shila(CS/IT Students Club for the 2022-23 session).	
	"ItivRitta"-An techno-cultural event.	
	"Jan-Gan-Man" -Hindi Divas Celebration	
AIP - Pharmacy	'Pharmacist Day'	
	A tentative workshop of 4th year students in September at Bundelkhand University on 'Sophisticated Instruments' used in pharmacy.	
AIP - Biotechnology and Medical Microbiology	One day workshop on Bioinformatics Tools	
	Celebration of Hindi Diwas-" Shabd Shringar Pratiyogita" and Kavy Paath.	
	Industrial visit: Namaste India.	
AIFT	<ul style="list-style-type: none"> • Fashion & Art film Festival • Recycle • Reduce and Re use(accessory making) 	<ul style="list-style-type: none"> • Fashion Art Treasure hunt • Draping challenge • Workshop on Styling & Makeup Artistry
AIHE	<ul style="list-style-type: none"> • Debate 	<ul style="list-style-type: none"> • Essay Writing

Dear Readers,

Welcome to the second Issue of our campus newsletter 'Oxygen'. The first issue of Oxygen received an overwhelming response from the readers including students, educators and all the stakeholders. It is a widely accepted norm that the college newsletter mirrors the activities of the institution. Although we will try to share a few articles throughout the next couple of issues to keep up with the world outside this campus which is different from the experience that students get during their academic years.

Our vision is to create a quality publication that will be relevant, thought provoking, skilful and inclusive of diverse range of voices and perspectives of students as well as faculty. We have introduced a book review section in this issue to kindle curiosity in the new readers. This issue also brings new sections like Tech digest, Innovation and Research review in order to keep students updated.

New session of our colleges has commenced in September. I take this opportunity to welcome the new batches. The beginning of the academic year is full of new dreams, hopes and aspirations which gives a chance to do things differently and with more attention to purpose. However, this is also one of the most challenging times of the year for many students.

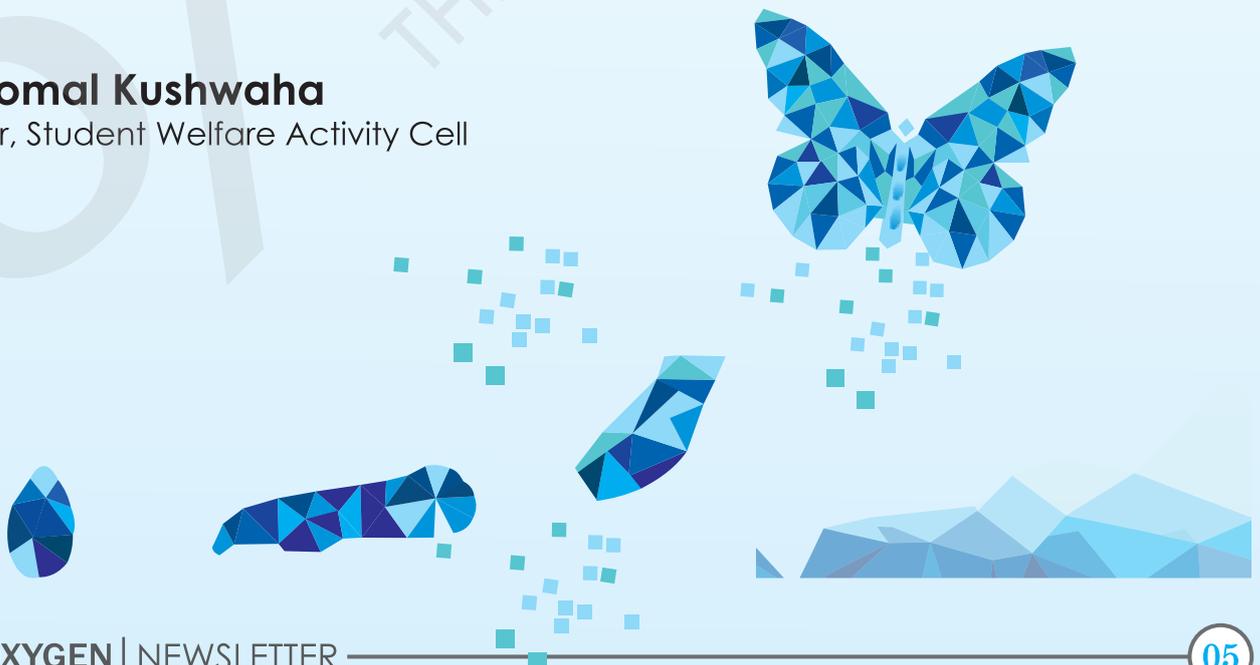
As we all are aware of the lifecycle of a butterfly where an ordinary caterpillar transforms itself into a butterfly. A student starts his journey like a caterpillar and as the caterpillar transforms itself into a vibrant and colourful butterfly, the student embarks upon a journey full of experiences aided by his surroundings and ultimately graduates as a professional imbuing vision, strength, passion and purpose of life. Finally empowered to fly and experience the freedom with true potential.

***"There is nothing in a caterpillar that tells you it's going to be a butterfly."* - R. Buckminster Fuller**

This is the lesson of butterfly which can transform each one of us through a journey of self-discipline, concentration and conscience. I hope you all become a beautiful butterfly. I am thankful to the members of the editorial board along with the contributors who put a lot of efforts in the creation of the Newsletter. We hope you enjoy reading this newsletter and we hope that the newsletter encourages our students to use it as a platform to express their creativity.

Ms. Komal Kushwaha

Director, Student Welfare Activity Cell





Dr. Ashish Malik

Director, Axis Institute of Technology & Management

Dear Students,

Welcome to Axis Colleges. You are now officially a member of our family, we are very delighted to have you with us as part of our family!

The defining element that connects Axis Colleges with its past is because of the people whose contributions have made it what it is today. Also, it provides the promise, of what it can become tomorrow, by providing a conducive environment to stimulate intellectual growth. To take you further along the journey, we hereby share with you VALUES of the institute, which guide our path on day-to-day basis & which will be the lamp-post of guidance during your stay here.

The Orientation program of yours clarifies the values and standards we hold as Axis Colleges and the ones we also expect you to honor in your conduct as a student in the Institute during your stay in the campus. As members of an academic community committed to the search for truth and knowledge, we all share the responsibility for upholding these standards. You are the fortunate beneficiary of the many contributions of those who have laid path before you. You also have a very important responsibility to assist and play your part in defining what Axis Colleges is and should be today. You are now one of the future stakeholders, responsible for protecting this proud legacy and ensuring that its promising future gets realized.

The faculty here represents an eclectic mix of industry and academic experiences, matching the national & international academic & professional environment. Our faculty members are known in their respective fields for acquired knowledge, industry interaction, research, and consultancy work. They are carefully chosen and complement each other as a team. Proactive measures have enhanced partnership with industry through research, consultancy, management development and other extension programs including student projects. We have a supportive administrative system, which cares for the students and proactively addresses your requirements.

During your time here, you have to take an active role in your own education and understand that a liberal education is as much about the character, values, morals, and social responsibility as it is about intellectual development and critical thinking. Strive for excellence in everything you do, and never settle for mediocrity. Learn to live with others in harmony for the betterment of the society. Take the time to dream and to reflect on your development as a holistic personality. In doing so, shape and refine your vision of who you are, and who you want to become.

Best wishes for happy and successful academic years ahead!

Media Coverage

Funding opportunities in Startup :

STARTUP AND FUNDING OPPORTUNITY IN PHARMACY, ENGINEERING & LIFE SCIENCES

AUGUST 24th, 2022
12:00 to 2:00PM
Online webinar

Organized by :
Institution's Innovation Council
Bundelkhand University, Jhansi (UP) &
Axis Colleges, Kanpur (UP)

www.axiscolleges.org Toll Free: 1800-3132-464

Webinar Featured in Jhansi Newspaper

स्टार्ट-अप एन्ड फंडिंग अपोर्चिनिटी इन फार्मेसी विषय पर वेबिनार आयोजित

झांसी। इंस्टीट्यूट ऑफ फार्मेसी, इंस्टीट्यूट इनोवेटिव कॉउन्सिल, बुन्देलखण्ड यूनिवर्सिटी, झांसी और एक्सिस कॉलेज ऑफ फार्मेसी, कानपुर के संयुक्त प्रयास से 'स्टार्ट-अप एन्ड फंडिंग अपोर्चिनिटी इन फार्मेसी, इंजीनियरिंग और लाइफ साइंसेज' विषय पर ऑनलाइन वेबिनार सित्तको वेबेक्स के माध्यम से आयोजित किया गया। मुख्य वक्ता डॉ. विनय कुमार सैनी, मैनेजिंग डायरेक्टर, आस्टिक फार्मा प्राइवेट लिमिटेड, मुम्बई ने छात्रों को विभिन्न प्रकार के इनोवेटिव आईडिया फार्मेसी, इंजीनियरिंग, विज्ञान, एप्लीकएटर के छात्रों को बनाने साथ ही अलग अलग प्रकार की फंडिंग एजेंसीज से कैसे ग्रंट/फंड प्राप्त कर सकते हैं और किस एजेंसी से कितना फंड मिल सकता है। इसके बाद उन्होंने प्रतिभागियों के प्रश्नों के उत्तर दिया इसके पूर्व प्रोफ. अर्पणा राज, अध्यक्ष, इंस्टीट्यूट इनोवेटिव कॉउन्सिल ने स्टार्ट अप और इनोवेशन की गतिविधियों पर विषय की प्रस्तावना प्रस्तुत की। डीन ऑफ इंजीनियरिंग एवं समन्वयक इंस्टीट्यूट इनोवेटिव कॉउन्सिल प्रोफ. एम एम सिंह ने 'स्टार्ट-अप एन्ड फंडिंग अपोर्चिनिटी इन फार्मेसी, इंजीनियरिंग और लाइफ साइंसेज' की उपयोगिता पर बातों को और छात्रों को अनिवाच्यता बताया। डॉ. ईशा यादव, कानपुर ने सभी अतिथियों का स्वागत किया। प्रो. सुनील प्रजापती, कोऑर्डिनेटर, नेशनल वेबिनार ने सभी साक्षियों, अधिकारियों, प्रतिभागियों, और तकनीकी टीम के सदस्यों का आभार व्यक्त किया। डॉ. बिभा, एक्सिस कॉलेज कानपुर ने कार्यक्रम का सञ्चालन किया। इसमें कुल 1004 प्रतिभागियों ने पंजीकरण कराया और 350 प्रतिभागियों उपस्थित रहे। इस वेबिनार में फार्मेसी विभाग के विभागाध्यक्ष एवं सभी शिक्षक, विश्वविद्यालय और एक्सिस कॉलेज कानपुर तथा अन्य कॉलेजों के छात्र छात्राये एवं शिक्षक उपस्थित रहे।

स्टार्ट-अप एन्ड फंडिंग अपोर्चिनिटी इन फार्मेसी विषय पर वेबिनार आयोजित

झांसी। इंस्टीट्यूट ऑफ फार्मेसी, इंस्टीट्यूट इनोवेटिव कॉउन्सिल, बुन्देलखण्ड यूनिवर्सिटी, झांसी और एक्सिस कॉलेज ऑफ फार्मेसी, कानपुर के संयुक्त प्रयास से 'स्टार्ट-अप एन्ड फंडिंग अपोर्चिनिटी इन फार्मेसी, इंजीनियरिंग और लाइफ साइंसेज' विषय पर ऑनलाइन वेबिनार सित्तको वेबेक्स के माध्यम से आयोजित किया गया। मुख्य वक्ता डॉ. विनय कुमार सैनी, मैनेजिंग डायरेक्टर, आस्टिक फार्मा प्राइवेट लिमिटेड, मुम्बई ने छात्रों को विभिन्न प्रकार के इनोवेटिव आईडिया फार्मेसी, इंजीनियरिंग, विज्ञान, एप्लीकएटर के छात्रों को बनाने साथ ही अलग अलग प्रकार की फंडिंग एजेंसीज से कैसे ग्रंट/फंड प्राप्त कर सकते हैं और किस एजेंसी से कितना फंड मिल सकता है। इसके बाद उन्होंने प्रतिभागियों के प्रश्नों के उत्तर दिया। इसके पूर्व प्रोफ. अर्पणा राज, अध्यक्ष, इंस्टीट्यूट इनोवेटिव कॉउन्सिल ने स्टार्ट अप और इनोवेशन की गतिविधियों पर विषय की प्रस्तावना प्रस्तुत की। डीन ऑफ इंजीनियरिंग एवं समन्वयक इंस्टीट्यूट इनोवेटिव कॉउन्सिल प्रोफ. एम एम सिंह ने 'स्टार्ट-अप एन्ड फंडिंग अपोर्चिनिटी इन फार्मेसी, इंजीनियरिंग और लाइफ साइंसेज' की उपयोगिता पर बातों को और छात्रों को अनिवाच्यता बताया। डॉ. ईशा यादव, कानपुर ने सभी अतिथियों का स्वागत किया। प्रोफ. सुनील प्रजापती, कोऑर्डिनेटर, नेशनल वेबिनार ने सभी साक्षियों, अधिकारियों, प्रतिभागियों, और तकनीकी टीम के सदस्यों का आभार व्यक्त किया। डॉ. बिभा, एक्सिस कॉलेज कानपुर ने कार्यक्रम का सञ्चालन किया। इसमें कुल 1004 प्रतिभागियों ने पंजीकरण कराया और 350 प्रतिभागियों उपस्थित रहे। इस वेबिनार में फार्मेसी विभाग के विभागाध्यक्ष एवं सभी शिक्षक, विश्वविद्यालय और एक्सिस कॉलेज कानपुर तथा अन्य कॉलेजों के छात्र छात्राये एवं शिक्षक उपस्थित रहे।

We often hear this statement that "Ideas are easy. Implementation is hard", but what's better than this, when you have someone who is eager to help you in your implementation. Axis Institute of Pharmacy, AIP jointly with Institute of Pharmacy and Institution's Innovation council, Bundelkhand University, Jhansi organized a webinar on the topic "Startup and Funding opportunity in Pharmacy, Engineering and Life Science" on August 24, 2022. The webinar was focused on providing information about various Startup techniques and funding Agencies that provide funds to help young scholars in their Startup. Students learnt the whole science behind fund raising, setting pitch and every minute details of establishing a novel Startup.



A Knowledge Sharing Event

Faculty members from Axis Institute of Higher Education (AIHE) participated in a seminar organized by ICAFI University, Hyderabad. It was an enriching knowledge-sharing event and the topic was - "Teaching through case studies". The speaker of the session was Dr. Mohd. Shariq, and the active participants from AIHE were Mr. Swarnim Gupta, Ms. Amreen Anwar & Ms. Rashika Shukla. The event was organized at Hotel DNG Grand, Kanpur, U.P. 7th of August 2022.



AIHE Faculty members with speaker Dr. Mohd. Shariq

MOU Signed between Bundelkhand university and Axis Colleges :

A Memorandum of understanding was signed between Axis Colleges and Bundelkhand University, Jhansi on 25th of July 2022 to work together and helping our students and developing their interest in Pharmaceutical sciences research and training in the areas of Pharmaceuticals, Drug Design, Microbiology and Biotechnology.



Exam Monologue

The legit argument - Offline exams or online exams

The global education system is evolving due to technology advancement and digitization. Today, taking tests online is commonplace in schools. The pandemic forced everyone on earth to change how they learned and lived. Numerous organizations, including educational institutions, were forced to close as a result of the implementation of nationwide lockdowns. Lessons are transferred from the actual classrooms to the digital display. Syllabi and teaching methods in schools are also changing. Overall, though, it has surely created new avenues for expanding access to education.

With many universities, institutions, and competitive examination bodies migrating to online exams from Pen & Paper-based tests done on a computer without a real question paper, students must choose the correct answer from the available options and mark on the virtual answer sheet.

Online exams include the following benefits and drawbacks:

PROS:

- They are cost-effective.
- Feasible in terms of setup
- Provide instant results.
- They can cater to a larger group of students.

CONS:

- Technological limitations
- Lack of internet connectivity
- Problems such as cheating

Whereas the offline exam is the traditional way of conducting tests with the question paper and OMR-based answer sheets, or where students need to solve the questions to arrive at a solution that needs a theoretical answer.

The following are the pros and cons of offline exams:

Pros:

- Practical learning
- Affordability
- Student-teacher interaction
- Little to no technical issues

Cons:

- High financial cost
- Time-consuming evaluation process
- Slow results

Both online and offline tests have advantages and disadvantages. In recent years, most students like taking tests online. Some people, however, favour the conventional approach to appraisal. Exams taken online take less time and money than exams taken offline. However, not everyone may have access to the materials needed for online exams. The setup and administration costs of offline exams are high. But many kids can access them more easily. Additionally, compared to online exams, there is a decreased chance of technological difficulties with offline exams.

Even so, when compared to performance on offline exams, a student's overall performance was better on online tests. Long-term performance will suffer because some students may not take their education as seriously as they did when learning offline.

The online exams were absolutely time and energy saving but it is degrading the quality of education.

Lastly, It can be concluded by saying that it cannot be denied that the online schooling system has sustained education in a time of dire need. Both offline and online exams have their upsides and downsides. As with the pandemic, the world has gradually come to a slow phase. Online examinations have received scrutiny for their credibility and authenticity. With the situation returning to normalcy, the offline mode will maintain the sanctity and standard of the examination.

“Education is the most powerful weapon that you can use to change the world.”

-Nelson Mandela

Achievements

The Fashion Whiz-kids of Axis Colleges

Karan Talreja, Sakshi Mishra from Axis Institute of Fashion Technology, Kanpur and Shital Palaskar, Prashant K. Panda, Mahesh Kapurderiya from Bombay Textile Research Association, Mumbai worked on The Project Title “Highly Protective Reusable Face Mask - Designing and Development” for the company Bombay Textile Research Association, Mumbai where they have designed and developed unique cotton-based 5 layers highly protective face masks with improved comfort, breathability, and above 95% bacterial filtration efficiency. The developed mask is very comfortable and gives a good protection and it is recommended to be used by common people. The mask is tested as per the requirements of Surgical Face Mask IS 16289 class 3 and passed all test requirements. This details of this project is printed on BTRA SCAN on January 2022 & Cotton Association of India on 8th March, 2022.

BTRA SCAN PALASKAR, PANDA, KAPURDERIYA, TALREJA, MISHRA

Highly Protective Reusable Face Mask – Designing and Development

Shital Palaskar*, Prasanta K. Panda*, Mahesh Kapurderiya, Karan Talreja*, Sakshi Mishra*
Bombay Textile Research Association, L B S Marg, Chhatkopar (W), Mumbai 400086
*Axis Institute of Fashion Technology Kanpur, Uttar Pradesh 209002

Abstract
Wearing a face mask is a compulsory requirement for today's lifestyle due to Covid-19 pandemic. The non-woven based disposable protective face is available at a low cost; however, they have comfort issues while wearing (fiber formation and disposal problems). The fabric-based mask available in the market does not give proper protection. Roughly face masks are categorized into three categories as fabric mask, surgical mask and respirator. Fabric mask provides less protection on the other hand surgical mask and respirator gives good protection but are not recommended for common people. Hence, we at BTRA have designed and developed unique cotton-based 5 layers highly protective face masks with improved comfort, breathability, and above 95% bacterial filtration efficiency. BTRA developed mask gives very good protection, is comfortable to use and is recommended to use by common people. The mask is tested as per the requirements of Surgical Face Mask IS 16289 class 3 and passed all test requirements. Further, the mask's durability to normal home laundering is also studied.

Keywords
Face Mask, Covid-19, comfort, disposable, breathability, durability, bacterial filtration efficiency

1.0 Introduction:
As a consequence of the Covid-19 pandemic, it is mandatory for the wearer a protective face mask. The government of India has also imposed strict regulations for use of face masks in public areas to prevent the spread of covid-19. Therefore, everyone must buy it and hence the demand for face covering is boomed. Disposable protective masks (N95) and similar use the most commonly used protective mask; however, satisfaction due to the synthetic fibres and fibre formation inside the mask makes it very uncomfortable to use and disposal of such used masks is another big issue [1-3]. Therefore, some manufacturer grabbed this opportunity to make reusable and washable face masks however their efficacy is unknown. Hence, it is important to develop a washable, reusable mask with reliable protection and comfort properties [3].

Reusable cotton face masks are preferred over disposable non-woven masks due to their comfort. However, the fabric used for the mask is normally open weave with large pore size. The porous nature of textiles means that viruses and bacteria can be trapped within the fabric structure, which possibly lowers the risk of the viruses being transferred. On the other hand, the size of bacteria, microbes and viruses are in the range of 0.012 to 0.5 microns. However, the pore size of the fabric is much larger than the pathogens and they can easily pass through the fabric pores. Reduction of the pore size without affecting the breathing comfort is necessary to improve the efficacy of the mask. The use of nanofiber membrane as a filter may help in solving the problem and improve filtration efficiency [4]. Hence, in this work, we have used the nano-fiber-reinforced membrane filter to reduce the pore size and improve the bacterial filtration efficiency. This work aimed to develop the washable, reusable, comfortable and highly protective face mask.

2. Material & Methods

2.1. Materials
100% Cotton fabric with 95 GSM having 96 ends per inches and 62 picks per inches with warp and weft count of 40/2s and 34/2s respectively was procured from India mart supplier. Polypropylene spun bond nonwoven with 50 GSM was used. Elastic nose wire and elastic adjuster were procured from the local market.

19

Mr. Karan Talreja

Ms. Sakshi Mishra

COTTON STATISTICS & NEWS
Cotton Association of India

Highly Protective Reusable Face Mask – Designing and Development

EXPERT'S COLUMN

Dr. Prasanta K. Panda
Senior Associate BTRA, Mumbai
With 20 years of experience working in various capacities in BTRA, Mumbai, having 5 years of experience in Research and Development of Agri products, mainly in Agri machinery and research.

Dr. Shital Palaskar
She has 12 years experience in various capacities of textile Engineering, Product Associate at BTRA, Mumbai, having 5 years of experience in Research and Development of Agri products, mainly in Agri machinery and research.

Shri. Mahesh Kapurderiya
Designer, Product Associate at BTRA, Mumbai, having 5 years of experience in Research and Development of Agri products, mainly in Agri machinery and research.

Shri Karan Talreja
He is a Group Counselor at BTRA, Mumbai, having 5 years of experience in Research and Development of Agri products, mainly in Agri machinery and research.

Ms. Sakshi Mishra
She is a First year student pursuing Bachelor's of Fashion and Apparel Designing at Axis Institute of Fashion Technology, Kanpur.

Wearing a face mask is a compulsory requirement for today's lifestyle due to the Covid-19 pandemic. The Government of India has also imposed strict regulations for use of face masks in public areas to prevent the spread of Covid-19.

Roughly face masks are categorized into three categories - fabric mask, surgical masks and respirator. The fabric-based mask available in the market do not guarantee protection. Disposable protective masks (N95) are common and provide good protection and are the most commonly used protective masks. However, satisfaction due to the synthetic fibres and fibre formation inside the mask makes it very uncomfortable to use and disposal of such used masks is another big issue. There are many reusable and washable face masks available in the market. However their efficacy is unknown. Hence, it was important to

Internships

Underground Metro Station Work, Kanpur Metro

Axis Institute of Technology & Management (AITM) organized one month internship training in metro construction work where students of Civil Engineering: Anubhav Bajpai, Akhil Kumar Kushwaha, Arpita Yadav, Yash Kumar Shukla, Bhavesh Anand Bajpai, Mukesh Singh, Ravi Sachan participated & learnt about casting of segments of tunnel rings and number of test performed on them as per codal standards. Further they learnt about d - wall (diaphragm Wall) construction, casting of slab on roof level, water proofing of roof slab, and on concourse level they also learnt about TBM (Tunnel Boring Machine). The method of construction was adapted from top to bottom.





Placement Highlights



Ayush Anand
B.Tech-CS/IT
5 LPA
daffodil



Iqlak Ahmad
B.Tech-CS/IT
5 LPA
daffodil



Nikhil Raj
B.Tech-CS/IT
4 LPA
Hori-zontal



Sandarsh Srivastav
B.Tech-ME
3.6 LPA
wipro



Dilip Kumar Shah
B.Tech-ME
3.6 LPA
wipro



Gangesh Kumar
BCA
5 LPA
daffodil



Shikha Verma
BCA
3 LPA
nagarro



Dikshansha Parmar
MCA
4.12 LPA
tcs TATA CONSULTANCY SERVICES



Shobhit Trivedi
MCA
4.8 LPA
airtel



Rishabh Gupta
MCA
4 LPA
md



Vishal Kumar
MCA
6 LPA



Rishabh Kumar Mishra
D.Pharm
3LPA
zydus
Dedicated To Life



Anuj Kumar
D.Pharm
3 LPA
Akumentis
Healthcare Ltd



Harsh Sahu
D.Pharm
3 LPA
Akumentis
Healthcare Ltd



Pawan Vishwakarma
D.Pharm
3 LPA
Akumentis
Healthcare Ltd



Shruti Pandey
D.Pharm
3LPA
Akumentis
Healthcare Ltd



Himanshu Agarwal
BBA
3.5 LPA



Joyce Denial
BBA
3.4 LPA



Shikher Mishra
MBA
5.1 LPA
IDFC FIRST Bank



Abhay Pratap
MBA
5.1 LPA
IDFC FIRST Bank



Shashwat Shukla
MBA
4.2 LPA
INDIAN OVERSEAS BANK

Flow Design Show

Axis Institute of Architecture (AIA) organized the Flow Design Show on 22nd and 23rd July 2022. It's a division of the Federation of Indian Commerce & Industry (FICCI), an apex body of industry and commerce, which was founded in 1983. AIA intended to give students a chance to showcase their abilities and work to the community. Sustainability served as the project's central topic. In addition, the competition was aced by AIA team under the guidance of Ar. Rajdeep Yadav (Asst. Professor, AIA).

As the competition was based on “Sustainability”, students of different colleges gathered there and presented their models as well as shared their opinions about the same. Besides this, many interior designing companies and sellers also assembled at the event and exhibited different materials which are used in interior design like stones, curtains, tiles, etc. This also triggered the growth of the concerned sector and contributed in making the event successful and impregnable.



Say No to Plastic

Axis Institute of Architecture (AIA) celebrated World Green Building Week in association with Prem Jain Memorial Trust (PJMT) and they organized a Poster Competition on theme “Say No To plastic “on August 24,2022 in Axis Colleges, Kanpur. Students of different departments participated in the competition under the guidance of Ms. Vanshika Agarwal, Asst. Professor, AIA.

The students showed their creativity and triggered their sense of environmental conscious nature through their sketches and paintings. Theme carried a message to the society 'How to save our environment from plastic' which is the burning question of our country.



Value Added Skills Training

Commencement of the Summer School (11th July to 17th August 2022): The Mechanical Engineering Department successfully commenced its summer school training for the students of Mechanical Engineering Final Year. The training program aimed to hone the technical as well as interpersonal skills of the students, thereby inculcating in them the professional acumen required to be categorized as a skilled and employable engineer. The following modules constitute the crux of the training program:



Technical Sessions

Computer Aided Design/ Manufacturing (CAD/CAM): This involves introducing the students to the fundamentals of CAD/CAM, which helps them comprehend how a digital design is created and then transformed into an actual object. The core of this session is the use of computer software to create a model, use that model for manufacturing, and inspire further innovation.

3-D Printing and Advanced Manufacturing: In this module, the students received instruction on the what, how, and why of 3-D printing technology as well as its potential applications in the future. This training session included a significant

portion on modern manufacturing technology, which has become a potent instrument for reducing production time, manufacturing costs, and material waste.

Heating, Ventilation and Air Conditioning: It deals with the engineering principles which play a key role during the thermal designing of a large building or facility to ensure optimum heat transfer with respect to the prevailing weather conditions, ventilation aspects for proper air circulation and air conditioning for controlling the temperature, purity as well as humidity of the air.

Automobile Engineering: Sessions on various aspects of automobile

components with functionalities were conducted. The technical expertise was provided to the students to enhance their knowledge and familiarity with evolving automobile industry.

PERT-CPM-Operational Research: This module deals with the various optimization techniques such as the Critical Path Method and Project Evaluation and Review Technique so as to acquaint the students with the research methodology and enabled them to find the optimum solution for a production/project problem that minimizes the cost and maximizes the productivity.

Non-Technical Sessions

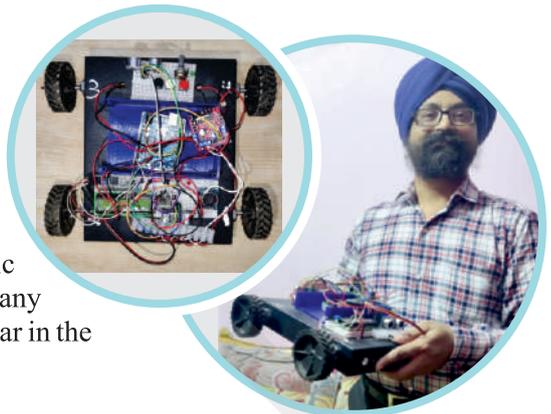
Personality Development Program : Interpersonal skills are the utmost essential for the students as well as working professionals today as they empower them to build powerful connections and establish rapport with anyone they meet. They are the threads that weave together the technical skills of the students. This session therefore trained the students to speak publicly with confidence, express their views in a fluent and precise manner and develop their proficiency in the usage of English language. Group discussions, debates, extempore, 'Just a Minute' sessions were conducted to achieve the aforementioned objectives.



Quantitative Aptitude and Reasoning Ability: This module prepared the students for participating in a variety of written tests given during placement drives and competitive examinations by enhancing their fundamental mathematics abilities as well as their reasoning power. Individual attention and extensive practice with questions were the key components of this session.

Obstacle Detector Anti Collision RC Car

Mr. Darshan Singh, Technical Trainer of Mechanical Engineering, Axis Institute of Technology & Management (AITM) designed and conceptualized an Obstacle detector Anti Collision RC Car that automatically detects any obstacle or hindrance during its course and accordingly changes its direction, thereby avoiding or eliminating any chance of collision. The RC car basically functions by means of ultrasonic sensors. These sensors use the principle of wave reflection so as to detect any possible hindrance in the course of the car. The mechanism then turns the car in the suitable direction to avoid the collision with the obstacle.



Publication

- Ms. Neha Singh published a paper on "Coloration of Cotton Fabric with Banana Flower Extract" Vol. 7 (5). May 2022.
- Ms. Rashika Shukla published a paper entitled A Concise Review on Theoretical Concepts and Risk Management Strategy of Charismatic Leadership. Name Page No. 1. Establishing Sustainability Context: First Step for Businesses on their Sustainability Journey, 199.
- Dr. Rajeev Kumar published a conference paper on "Process parameter characterization of dielectric elastomer based electro-mechanical system" in Advances in Engineering Design https://doi.org/10.1007/978-981-33-4684-0_71
- Mr. Azeezuraman Ansari published a research paper entitled "Demarcation of Ground Water Potential Zone of Kanpur City".
- Mr. Vinay Kumar Pandey has published a paper entitled "Recent insights into polysaccharide-based hydrogels and their potential applications in food sector: A review" in International Journal of Biological Macromolecules, 213, 987-1006 in May 2022 (SCI)DOI:10.1016/j.ijbiomac.2022.06.044
- Ms. Sarika Shukla has published a paper on "Employee Well-being: An influential need of Indian organizations" in International Journal of Advanced Multidisciplinary Research and Studies.
- Dr. Abhay Shukla published a book "Artificial Intelligence and Intelligent System for Beginners", ISBN – 978-93-94339-86-6, Published by: AGPH Books (Academic Guru Publishing House).
- Mr. Janey Alam published research paper on Hepatoprotective potential of ethanolic extract Aquilaria agallocha leaves against paracetamol induced Hepatotoxicity in SD rats...Journal of Traditional complementary Medicine (Elsevier).



Ms. Neha Singh



Ms. Rashika Shukla



Dr. Rajeev Kumar



Mr. Azeezuraman Ansari



Mr. Vinay Kumar Pandey



Ms. Sarika Shukla



Dr. Abhay Shukla



Mr. Janey Alam

FDP			
Department	Name of Faculty	Topic	Platform
AITM B.Tech- CSE	Dr. Abhay Shukla	Entrepreneurship, Innovation & Digital Skills in New Era of Artificial Intelligence	Online under the aegis of Ministry of Education, IIC, AICTE , New Delhi
	Ms. Shail Dubey	Entrepreneurship, Innovation & Digital Skills in New Era of Artificial Intelligence	Online under the aegis of Ministry of Education, IIC, AICTE , New Delhi
	Mr. Durgesh Tripathi	Entrepreneurship, Innovation & Digital Skills in New Era of Artificial Intelligence	Online under the aegis of Ministry of Education, IIC, AICTE , New Delhi
	Mr. Kishore Kunal -Keshri	AWS Academy Graduate - AWS Academy Cloud Architecting training	Online, Eduskills
	Mr. Rajendra Singh	PaloAlto Cybersecurity Academy PCCET Educator Training Program	Online, Eduskills
	Mr. Shubham -Chaurasia	Entrepreneurship, Innovation & Digital Skills in New Era of Artificial Intelligence	Online, Eduskills
AITM B.Tech- EC	Dr. Rahul Umrao	Power System Analysis	Center of excellence, Anna University
	Mr. Tilak Saxena	Modelling, Simulation & Measurement of High Frequency Antennas for Advanced wireless Communication	Center of excellence, Anna University
AIFT	Ms. Shalini Singh	Innovation and Recent Advancement in Fashion and Textile	AICTE Training and Learning (ATAL) Academy
	Ms. Neha Singh	Innovation and Recent Advancement in Fashion and Textile	AICTE Training and Learning (ATAL) Academy
	Kumar Praveen -Sourabh	Innovation and Recent Advancement in Fashion and Textile	AICTE Training and Learning (ATAL) Academy
	Ms. Vinita Juneja	Innovation and Recent Advancement in Fashion and Textile	AICTE Training and Learning (ATAL) Academy
	Ms. Priya singh	Innovation and Recent Advancement in Fashion and Textile	AICTE Training and Learning (ATAL) Academy

AIFT	Ms. Pratima	Innovation and Recent Advancement in Fashion and Textile	AICTE Training and Learning (ATAL) Academy
	Ms. Kavita Sharma	Innovation and Recent Advancement in Fashion and Textile	AICTE Training and Learning (ATAL) Academy
	Mr. Shivam Kumar	Innovation and Recent Advancement in Fashion and Textile	AICTE Training and Learning (ATAL) Academy
AIHE	Mr. Mohit Singh	JNCAA- Junos, Associate (JUNCIA-JUNOS)	Juniper (Education Services)
	Mr. Shivam Kumar -Singh	Robotics Process Automation	Blue Prism (RPA)
		AWS Cloud	Amazon cloud (AWS)
	Ms. Rashi Shukla	Scholarly writing and publishing research papers	Integrated University, Lucknow
AIHE	Ms. Anam Taufeeq	Practical Aspects of ICT Tools & Online Teaching in Current Scenario	Research Foundation of India
	Ms. Anjali Tripathi	Practical Aspects of ICT Tools & Online Teaching in Current Scenario	Research Foundation of India
AIHE	Ms. Sarika Shukla	Neuro Linguistic Programming (Level 1&2)	Online, Amity University



3D printing-Future of Architectural Engineering and Construction

Since its inception in the 1980s, 3D printing has undergone substantial development and is currently utilized by numerous industries to meet a variety of needs and solve pressing issues. The same applies to architecture. Architects are already starting to use this cutting-edge construction style now that technology and printing methods have advanced dramatically in recent years. Here, we'll examine the reasons behind the rise of 3D printing structures and the ways in which real-time rendering technology is being used in the creation of new designs. Grand View Research's July 2021 market analysis report projects that the global market for 3D printed construction will increase by 91% by 2028. According to Grand View Research, the use of 3D printing technology will also result in improved accuracy, enhanced productivity, lower labor costs, and faster design turnaround times. The UAE was one of the first nations to acknowledge the advantages of 3D printing (United Arab Emirates). They have already created a plan of action to maintain their leadership in the use of 3D printing. By 2030, they want 25% of Dubai's structures to be made using 3D printing technology.

Both Europe and America are experiencing an increase in 3D printing ventures. Just two months after finishing its first residential project in Germany, PERI GmbH started construction on the largest printed residential structure in Europe (German Innovation Award from the German Design Council).

And in the US, we're already seeing print home sales and other initiatives by companies like SQ4D and ICON. 3D printing offers an efficient solution to some of the challenges currently faced by Architectural Engineering and Construction (AEC) industry around the world (affordable housing, disaster shelters, sustainability, etc.). You can safely expect an increase in projects being started. Let's take a closer look at some of the benefits that 3D printed architecture offers.

Reduced construction costs - Building with 3D printing is more cost-effective than using conventional methods. This is due to the fact that it uses materials more effectively in addition to the requirement less energy and fewer personnel. It is possible to compute the precise amount of material required, which reduces waste and lowers building costs. Already, businesses like the US-based ICON are producing 3D printed homes more quickly and economically. Housing people in need and those looking for more economical housing solutions is becoming a possibility because of the advancement of 3D printing.

Sustainable construction - Another advantage of 3D printed structures is their environmental friendliness. Concrete is often the building material of choice in standard construction, but 3D printing companies are looking to more sustainable options such as raw soil,



Student while practising work with 3d printer

biodegradable bamboo, and recyclable thermoplastics. Environmentally sustainable 3D printed habitats constructed from reusable and recyclable materials.

Faster way to build - Another major advantage of 3D printing is the speed of construction. New homes can be printed in days instead of months compared to traditional technology. For example YHNOVA, 95 square meter project in France by Batiprint3D and Nantes University and other partners, was printed in just 54 hours. Printed in our manufacturing facility rather than on-site, and using a specially formulated, lightweight stone that hardens quickly when exposed to UV light, it can be built much faster than traditional construction. For example, we are meeting the demand for affordable housing, building emergency shelters in disaster-prone areas, and building new housing at a rapid pace. Lake Flato, an award-winning US company, they recently partnered with ICON to explore ways to maximize the environmental, architectural and construction benefits of 3D printing. The result is House Zero, an energy-efficient, practical and resilient 2,000-square-foot, three-bedroom home in Austin, Texas. The House Zero features ICON's next-generation Vulcan printing technology, which allows it to print much larger (up to 3,000 square feet) and faster than its predecessor. When 3D printing hit the market 30 years ago, the idea of living in a 3D printed house was almost unthinkable. AEC will have the opportunity to truly push the boundaries of design, engineering and construction to provide solutions to some of the challenges faced by the industry and the world today.

New chemical reactions are found to be the "Origins of life"

The Earth was lifeless and completely covered in water four billion years ago, when compared to how it is today. Life began to appear in that primordial soup over the period of millions of years. For a long time, scientists have proposed theories as to how molecules combined to cause this change. Now, scientists at Scripps Research have uncovered a novel series of chemical processes that produce amino acids and nucleic acids, the building blocks of proteins and DNA, using cyanide, ammonia, and carbon dioxide. These substances were all assumed to be prevalent on the ancient planet.

Ramanarayanan Krishnamurthy, PhD, an associate professor of chemistry at Scripps Research and the paper's lead author, claims that "We've come up with a new paradigm to explain this shift from prebiotic to biotic chemistry." The new paper was released on July 28, 2022, in the journal *Nature Chemistry*. "We believe that the types of responses we have outlined are likely what could have occurred on early Earth."

The newly found chemical reactions are helpful in specific manufacturing processes, such as the production of bespoke labelled biomolecules from affordable starting materials, in addition to providing researchers with information on the chemistry of the early earth. Krishnamurthy's team demonstrated how cyanide can facilitate the chemical reactions that transform primordial materials and water into the fundamental organic matters that life necessitates earlier this year. Today, specialised proteins called enzymes and nitrogen are both used in the production of amino acids in cells from precursors termed α -keto acids. The existence of α -keto acids is suggested by evidence discovered by researchers. However, since the enzymes needed to complete the conversion were not yet present, many have theorized that before the emergence of cellular life, amino acids must have been produced from entirely different precursors, aldehydes, rather than α -keto acids. But that notion has given rise to a discussion concerning whether and when the primary component for producing amino acids changed from aldehydes to α -keto acids.

Following their effectiveness in driving other chemical processes with cyanide, Krishnamurthy and his colleagues hypothesized that cyanide, even in the absence of enzymes, might also aid in the conversion of α -keto acids into amino acids. They introduced ammonia, a type of nitrogen that would have been available on the early earth, because they knew nitrogen would be needed in some form. The third

essential component was later identified through trial and error as carbon dioxide. With this mixture, they observed the formation of amino acids quite quickly.

The solution turned out to be even simpler than we had anticipated, according to Krishnamurthy, who had anticipated that it would be rather challenging to understand. "If you merely combine cyanide, ammonia, and keto acid, nothing happens. The initial response accelerates the moment carbon dioxide, even in trace amounts, is added."

The novel interaction is more probable to be the origin of early life than vastly different reactions, the researchers say, because it is pretty similar to what happens within cells today — with the exception that it is controlled by cyanide instead of a protein. The study also reconciles opposing views on the significance of carbon dioxide for the development of early life,

coming to the conclusion that carbon dioxide was essential, but only in conjunction with other chemicals. Krishnamurthy's team identified orotate, a precursor to the nucleotides that make up DNA and RNA, as a result of the same event while investigating their chemical mixture.

This shows that the same primordial soup may have produced a high number of the molecules necessary for the essential components of life under the correct circumstances.

Being a Biotechnology Faculty, I want to clear your doubts regarding prebiotic chemistry. Prebiotic chemistry is the study of the formation and self-organization of organic substances during the beginning of life on Earth and in other places. After reading the research a paper regarding the same I think that, the evident gap between heterotrophic and autotrophic scenarios relating prebiotic chemistry and biology need not be inconsistent at least in some cases, in order to trigger a severe and fragmented switch from one chemistry towards the other. This will help us to better understand whether such transformation is conceivable or not.

Reference

Krishnamurthy, R., Pulletikurti, S., Yadav, M., & Springsteen, G. (2021). Prebiotic synthesis of α -amino acids and orotate from α -ketoacids potentiates transition to extant metabolic pathways.

The newly found chemical reactions are helpful in specific manufacturing processes, such as the production of bespoke labeled biomolecules from affordable starting materials, in addition to providing researchers with information on the chemistry of the early earth.

Ms. Anjali Tripathi
Asst. Prof., Biotechnology

Medications that can be used for Monkey pox treatment

The virus that causes monkey pox is a member of the Orthopoxviruses group, which also includes the viruses that cause cowpox, smallpox, variola, and vaccinia. West and Central Africa are endemic to the monkey pox virus. With a 2022 outbreak that has spread to Europe amid the severe acute respiratory syndrome corona virus 2 (SARS-CoV-2) pandemic, the incidence of monkey pox is increasing globally. The novel viral mutations and variations are connected to the current monkey pox outbreak. Typically, monkey pox is a self-limiting illness with symptoms that last between two and four weeks. There may be severe cases. The case fatality rate has recently been in the range of 3-6%.

Humans can suffer from monkey pox by coming into close contact with an animal or person who has the disease, as well as by coming into contact with contaminated objects.

By coming into intimate contact with lesions, bodily fluids, respiratory droplets, and contaminated objects like bedding, the monkey pox virus can spread from one person to another. Clinical symptoms of monkey pox often include fever, rash, and swollen lymph nodes, and it can result in a variety of health issues. The

United States (US) Food and Drug Administration has only licensed Tecovirimat as a treatment for chickenpox at this time (FDA). Otherwise, the pharmacopoeia is

Humans can suffer from monkey pox by coming into close contact with an animal or person who has the disease, as well as by coming into contact with contaminated objects.

modest and research into monkey pox is not particularly popular.

As, per the research nilotinib for A50R, rutaecarpine, and NMCT for A48R, naldemedine and hypericin for F13L, simeprevir for D13L, and lixivaptan and fosdagrocorat for I7L were the eight medications that might have been used to treat monkey pox.

According to the study's findings, all of the proteins examined in the French isolate contained a variety of premature stop codons, polymorphisms, and duplications. Despite the broken frames, these polymorphisms were not on any key active residues, and their placements

were largely conserved.

As the study results show, certain medicines have a considerable affinity for monkey pox proteins, which are necessary for viral replication. These drugs contain compounds that exhibit a high affinity for the monkey pox D13L capsid protein, whose inhibition prevents viral multiplication. The use of the potential antiviral drugs nilotinib for A50R, rutaecarpine and NMCT for A48R, naldemedine and hypericin for F13L, simeprevir for D13L, and lixivaptan and fosdagrocorat for I7L, as well as the controls mentioned in the paper, should be investigated further to reduce the number of deaths. Additionally, they believe that current epidemics and pandemic including the monkey pox and corona virus disease 2019 (Covid -19) will bring much needed attention to diseases that are now being ignored and it will promote much needed research.

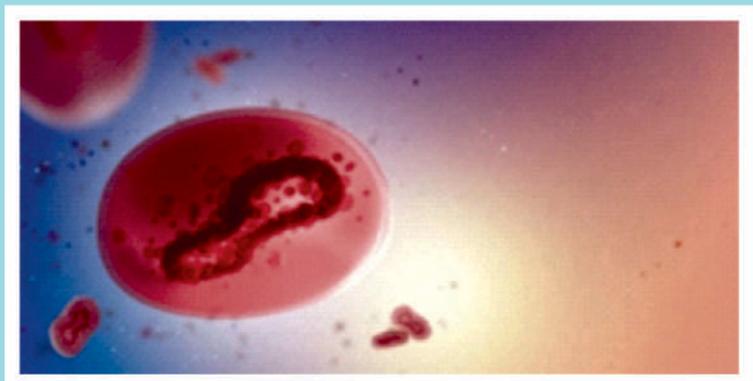
Reference:

Hilbert Yuen In Lam, Jia Sheng Guan, Yuguang Mu. (2022).

In silico repurposed drugs against monkey pox virus. bioRxiv. doi:

<https://doi.org/10.1101/2022.07.17.500371>

<https://www.biorxiv.org/content/10.1101/2022.07.17.500371v3>



Formulations of The Month

CALQUENCE

CALQUENCE (Acalabrutinib) tablets, for oral use initial U.S. Approval : 2017 and is revised on 03/08/2022 for Patient Counselling information and FDA - approved patient labelling.

CALQUENCE (acalabrutinib) is a kinase inhibitor. The molecular weight is 599.59. The chemical name is 4- {8-Amino-3-[(2S)-1-(but-2-ynoyl)pyrrolidin-2-yl] imidazo [1, 5-a] pyrazin-1-yl} -N-(pyridin-2-yl) benzamide (2Z)-2-butenedioic acid hydrate.

DOSAGE FORMS AND STRENGTHS:

Tablets : 100 mg acalabrutinib, orange, oval, film-coated, Biconvex, debossed with ‘ACA 100’ on one side and plain on the other



STORAGE AND HANDLING:

Store at 200C-250C (680F - 770F); excursions permitted to 150C - 300C

CONTRAINDICATIONS : None

DEVELOPED BY : AstraZeneca pharmaceuticals LP, Wilmington

AMVUTTRA:

AMVUTTRA is indicated for the treatment of the polyneuropathy of hereditary transthyretin-mediated amyloidosis in adults. AMVUTTRA (vutrisiran) injection, for subcutaneous use Initial U.S. Approval: 2022 (13/06/2022) First and Only FDA-approved Treatment Demonstrating Reversal in Neuropathy Impairment with Subcutaneous Administration Once Every Three Months.

DOSAGE FORMS AND STRENGTHS:

Injection: 25 mg/0.5 mL of vutrisiran as a clear, colorless-to-yellow solution in a single-dose prefilled syringe.



STORAGE AND HANDLING:

It can be stored at 2°C to 30°C (36°F to 86°F) in the original carton, until ready for use. Do not freeze.

Patient Counseling Information:

AMVUTTRA treatment leads to a decrease in serum vitamin A levels. Patients are instructed to take the recommended daily allowance of vitamin A. Patients are advised to contact their healthcare provider if they experience ocular symptoms suggestive of vitamin A deficiency (e.g., night blindness) and they can be referred to an ophthalmologist if they develop these symptoms. Patients should inform their healthcare provider if they are pregnant or plan to become pregnant while taking AMVUTTRA. Patients are informed that AMVUTTRA has potential risk to the fetus & AMVUTTRA's treatment leads to a decrease in serum vitamin A levels.

CONTRAINDICATIONS: None

DEVELOPED BY: (BUSINESS WIRE)—ALNYLAM PHARMACEUTICALS.INC Headquartered in Cambridge, Massachusetts, USA.



A Mesmerising View of Atal Ghat

Kanpur is the most populous city in the state Uttar Pradesh and is well known around the world for its leather and textile industry. The city draws a sizable number of tourists due to its location on the banks of the revered Ganges River. India values the River Ganges greatly in terms of its economy, environment, and culture. Many visitors travel to Kanpur to take in the beauty and majesty of the religious and historical sites. Due to its location along the Ganges River, Kanpur is home to a large number of Ghats, each of which has a special feature.

Additionally, Kanpur's Atal Ghat is a popular destination for tourists. It is located along the Ganges River. And it is about halfway between the Ellis and Nehru bridges. It was constructed to honor the late Shri Atal Bihari

Vajpayee. Atal Bihari Vajpayee was the tenth Prime Minister of India. He was an outstanding orator, writer, and politician. Vajpayee was a diplomat and politician from India.

On December 14, 2019, our honorable Prime Minister Shri Narendra Modi inaugurated the Atal Ghat. This 102-meter-long Ghat was built as part of the Namami Gange Program and is located close to the Ganga Barrage. The premier "Namami Gange" initiative, which unifies the efforts to clean and safeguard the Ganga River in a comprehensive manner, was authorized by the Union Cabinet, which is presided over by Prime Minister Shri Narendra Modi. To achieve long-lasting effects, the government is concentrating on involving the residents along the river's banks.

Ganga Barrage the 2000 opening of Kanpur Bridge, which is situated at Azad Nagar in Nawabganj Kanpur. It's a sizable dam that spans the Ganga River. Atal Ghat is a serene location. The Ganga is so peacefully visible. People frequently travel here to take boat rides and take in the scenery with their loved ones and don't forget to bring your cameras because there is a lovely wall artwork there as well. To be truthful, one must record it. It's a respectable location for picnics where one can go with family and friends. Being there will leave a great impact on you.

Swarnim Gupta
(Asst. Prof., AIHE)
&
Rashika Shukla
(Asst. Prof., AIPM)

Industrial News

First leather park in Kanpur under Mega Leather Cluster Project



According to Uttar Pradesh government, the work of the mega leather park in Kanpur's Ramaipur village is progressing fast and will soon be a 'Game Changer' for the district, which it claimed recently that the project was sanctioned by the Centre. 235 acres of land has already been acquired by Ministry of Commerce last year. More than 150 tanneries will run through the park.

According to media reports from the state, the park is expected to offer direct employment to around 50,000 people and indirect employment to around 1.5 lakh.

The objective is to produce leather goods including shoes, wallets, and jackets while promoting their exports. The idea was first put forth in 2012 after the Samajwadi Party government assumed power, but despite numerous attempts, it was never carried out. This project is crucial since Kanpur's tanning facilities have been held accountable for the Ganges River's rising pollution levels.

The government also claimed that Kanpur would soon turn into a textile and leather city. The government has received 23 proposals for setting up industries in Kanpur city as well as in rural areas of the district. It claimed that around 7,000 people would get employment after the completion of these projects worth around Rs 4,000 crore.

RP Polypax and Kanpur Plastics Limited have set up textile factories in Kanpur City and Kanpur (Rural) at a cost of Rs. 150 Crore and Rs. 200 Crore respectively and have already started production. Sparsh India Pvt. Ltd has invested Rs 600 Crore in setting up a plastics factory in Kanpur (Rural).

Shalini Singh
(Asst. Prof., AIFT)

The Lord of the Flies

If you like your books to have gripping and believable characters with a plot second to none, then *Lord of the Flies* is for you.

“Which is better – to have rules and agree, or to hunt and kill?”

The human condition and its role in the emergence and demise of democracy are vividly illustrated in this tale. This story's central theme is fear: how it can be used to manipulate people and how it erodes our humanity.

Lord of the Flies isn't a typical book. This book seemed to be an adventure book because of its mystery and adventure genres. Beginning of this book is all about an island that is suddenly inhabited by a bunch of reckless schoolboys which is a clichéd setting for a story. It's the ideal formula for an adventure book similar to any other. However, it differs from all the others.

The intriguing plot of this book is about a plane crash which leaves a group of schoolboys stranded in a desert during an unspecified war period. It is shocking, though not entirely intolerable. After all, the young boys' fantasies have come true: who wouldn't want an entire island to themselves to play on all day without adults bugging them? The unlikely heroes are Ralph, a fair-haired character, and Piggy, his sidekick. The boys realize that, in the absence of any adult, a leader must be chosen to ensure that everyone should have fun and behaves nicely (with the exception of Piggy, of course; making fun of Piggy is totally acceptable). Because of his ability to lead and stand out among the other boys, Ralph ends up winning the election. Jack, a choirboy whom Ralph befriends, ends up being the story's antagonist. Both boys grow to loathe each other as the days pass, with Jack getting hungrier for power. It doesn't take long for what was once thought of as a happy escape from the adult world to turn into something more sinister and unsettling.

It's difficult to accurately define protagonists and antagonists in *Lord of the Flies* because the book is more than just boys learning to be independent. It has a deeper, more nuanced meaning, leading the reader to ponder what

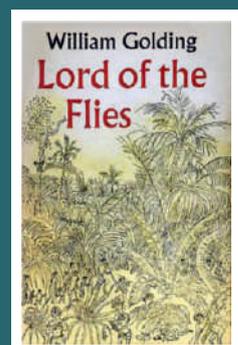
it truly means to be morally corrupt and what evil really is. The reader constantly finds fault with Ralph, Piggy, Jack, and the other schoolboys' choices and deeds, to the point where the reader is rendered speechless by what has transpired. Innocence is lost and life for the boys will never be the same again.

Despite covering a few months, the book doesn't feel hurried. Every chapter whets our appetite for the next one. The success of *Lord of the Flies* can be attributed to William Golding's deft use of subliminal clues that are introduced early on and become more obvious as the plot develops and events turn from bad to, well, barbaric and bloody. Ralph's development in the story is also valued. Ralph is depicted as having blue eyes and blonde hair, the ideal combination for innocence. He is conceited and carefree, and the idea of having an entire island to himself is undoubtedly alluring. Ralph matures over time and comes to the realization that life is not just about having fun and having lots of friends, as things get out of hand and out of control. Reading between the lines will enable the reader to comprehend and appreciate the dark hints that make this story truly exciting and magnificent in every way. On the surface, *Lord of the Flies* may seem to be just a story about boys trying to survive on a deserted island, but Golding illustrates that evil is present in everyone and everywhere; humankind's work lies not in the impossible mission of eradicating it but in the struggle to keep it from becoming the dominant force in our lives.

Teenagers who want to try something unique should pick up this book & who enjoy mystery and adventure should definitely try this classic. But if you're someone who enjoys romance and happy endings, look elsewhere. However, *Lord of the Flies* is for you if you prefer your books to have compelling plots and believable characters. We can guarantee that when you finish reading this book, you'll have a new perspective on the world and maybe even a better understanding of what *Lord of the Flies* is all about. The reader is left wondering how blurry the line between good and evil really is due to the book's deeply sinister inner meaning.

Author's Background

1911 saw the birth of William Gerald Golding in Cornwall, England. Alec carried on the scientific rationalist traditions of authors like T.H. Huxley and H.G. Wells with his anti-religious devotion to reason. This rationalist perspective was intolerant of emotionally charged experiences, such as Golding's childhood fear of the dark. From 1935 to 1939, Golding supported himself as a social worker while working as a writer, actor, and producer with a small theater in an out-of-the-way area of London. Shakespeare and the Greek tragedians, rather than other novelists, were his chief literary influences. He regarded the theater as his greatest literary influence.



Indispensable Role of Grooming in Professional World

'Grooming' can't be considered as a small term but it is a crucial factor which affects person's persona. People perceive your image by the way you carry yourself. It comprises personal hygiene, well managed hair, appropriate dressing and more. To look presentable is now a need for a person's life. The way you carry yourself, pays high regards in the corporate world. Along with the compatibility of your own field, a groomed personality is just like 'an icing on the cake'.

Groomed personality is a reflection of positive attitude. It also builds your image among people as and when you commute daily to several places, it is not possible to communicate with every person yet there are always few faces which you can't forget, the reason is not that they were so glamorous but it is all how well they carried themselves. When we talk about a well groomed person, it is not just about your dressing sense or physical appearance. It is about the overall demeanor.

If we see in corporate world, companies are more concerned about people who are well groomed apart from their core field expertise. For college students the best key to get through any interview or to survive in any professional environment is **HARD SKILLS + SOFT SKILLS = EFFECTIVE EMPLOYEE.**

'Great things are done by a series of small things brought together'- Vincent Van Gogh

Influenced by these lines, there are petty but very essential tips which create positive impact on everybody.

Neat dressing sense is a part of building our incredible presence. One

of the most important parts of industry is to dress correctly at work place and for meetings. Apart from wearing well fit clothes, consider that you choose corporate colors. The initial thing about our attires in the office or in college is to adhere to the dress code that has been mandated. Other smart options include Business Suits, Trousers paired with shirt. Tie compliments your overall

look. Avoid loud colors in ties. Sarees or Ethnic suits can also be considered as Indian formal for females. Talking about attires of a person, three factors are crucial: -When to wear, what to wear and how to wear.

"The colors live a remarkable life of their own after they have been applied to the canvas."- Edvard Munch.

Good grooming starts with proper hygiene which is a significant part of effective grooming. Under personal hygiene, you should be cautious about hairstyle, nails, conservative usage of perfumes or body sprays.

In regards to males, a well-trimmed haircut, trimmed moustache, short nails, fills attraction in personality. For Males, hair should not fall over the ears or it should not touch the back of the collar. Males should be careful about side burns and beards. Men should always limit their accessories. Watches, rings, handkerchief can be used. Belts should generally be leather and of a good quality.

For females, it is important to have neat hairstyle, groomed face with trimmed nails.

Funky watches, bracelets, visible



piercing, and tattoos should be avoided by males & females both.

Proper grooming and professional appearance are important to gain not just positive impression but also respect in the workplace. First impressions matter and the way you look and carry yourself create impact on people you get along with in the work place. Lack of these may lead to poor image and may interfere with your chance of getting good impression and positive feedbacks from your workmates and superiors. Grooming has a capacity to change people's perception as a tidy personality is a mark of professionalism, sophistication, credibility and intelligence.

"Good grooming is integral and impeccable style is a must."

Daymond John

Ms. Sarika Shukla

Assistant Professor, PDP Dept.

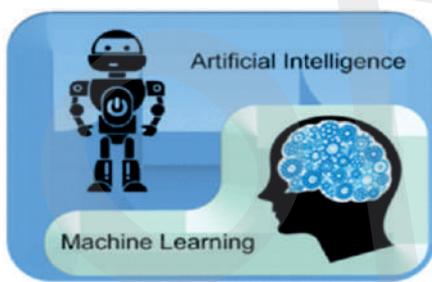
New & Trending Technologies in Information Technology

As a faculty member of the Computer Science department, I find that the information technology industry is confronting a boom that has never been experienced, and every company is looking to expand in this area because of the immense amount of potential. With the expanding importance of the IT industry, it becomes important to understand the important aspects of this industry and its key components. Here, I explore recent computing developments and trends in the IT sector.

1. Artificial Intelligence and Machine Learning

As per the demand of time automation is growing due to which artificial intelligence is now starting to see the light of day. The past year saw the introduction of several new forms of artificial intelligence. This year, industries are looking for ways in which they can grow these resources and implement the work they do. Artificial intelligence is now starting to see implementation on a larger scale, which is only set to grow more over the coming years.

Machine learning is among the leading technologies of this century. A career in this domain can expose you to advanced computational infrastructure and novel research in the field, making this a fine new technology in 2022 you should consider getting into.



2. Data Science

A trending technology in computer science is data science. In simple words, data science is using and preparing data for analysis. Different career options are available in data science, such as data architects and

administrators; data engineers; data analysts; data scientists; machine learning engineers; etc.

3. Full Stack Development

Full-stack development refers to the development of both client-side and server-side software and is bound to be one of the top trending technologies of 2021. Full stack development is a popular and promising career for those in the software development field. Full stack developers must have a comprehensive understanding of both front and back-end architectural principles and command of several programming languages, including front-end staples such as HTML, CSS, and JavaScript, as well as back-end standbys such as Python, Java, and R.

4. Automation

Automation is one trend that has largely hit manufacturing and production units and is something that is estimated to only grow more in the coming years. Automation has also enabled processes to work at a faster pace and enables companies to achieve their goals in a much more efficient manner.

5. Edge Computing

Edge computing is one concept that has grown over the past few years and is seeing a huge amount of implementation in recent times. Edge computing occurs when large volumes of data are processed near

the edge of the network rather than where the data is mainly being generated. This is meant to make this processing more efficient and optimize it. More development media are choosing to go in for this form of computing over traditional types because of its efficiency. This also attests to the fact that more methods of computing and program generation are on the rise.

6. Virtual Reality and Augmented Reality

Virtual Reality and Augmented Reality have both been technology buzzwords for over a decade now. Augmented reality is another approach to 'artificial experiences' that individuals are now being given access to. This has improved the way the field has been able to develop. Augmented reality is seeing a lot more applicability outside of the gaming industry as well, and is something that is seeing more implementation as compared to virtual reality. The gaming industry has always been one that has experienced growth alongside the field of information technology, and virtual reality has taken this one step further, giving customers the very epitome of digital experience. New technology has already started to become popular due to new technology that improves the way the industry can grow.

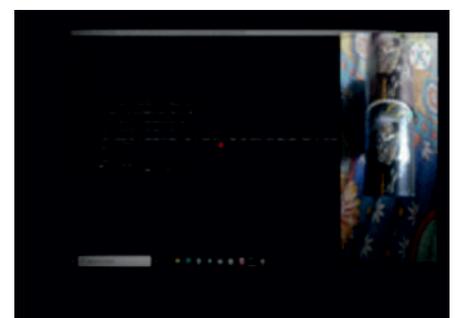


Fig: Snapshot from Just a Click (Final year project based on Augmented Reality)

7. Blockchain

We all have heard about blockchain in the past few years, mostly in the context of cryptocurrency. It has grown to have several different applications as well. The important fact about the blockchain is that it is never under the complete control of a single entity due to its being entirely consensus-driven. It can never change the data you store in the blockchain. That's why it is widely used in sharing medical data in the healthcare industry, in maintaining the integrity of payment systems, and in supply chains in real-time.

8. 5G

It is a new technology in 2022 for which companies and governments around the world have spent years preparing for the rollout of 5G technology. In several countries, this technology has already been rolled

out and has achieved a significant amount of success. 5G has a much greater capacity than the current 4G technology, with an average network speed of 100 Mbps and a peak speed of 20 Gbps. When 5G technology was only in the development stage, 5G jobs were few, and most of the jobs were allocated to employees within companies. However, companies have begun to hire network engineers over the past few months, specifically for jobs associated with their 5G networks.

9. Cyber Security

As digital media and technology expand, the potential threats that people can face are also mounting. Due to this, cybersecurity must have grown extensively over the past few years simply to stay in touch with the growth that is being practiced. Industries all over the world also realize the importance of capitalizing

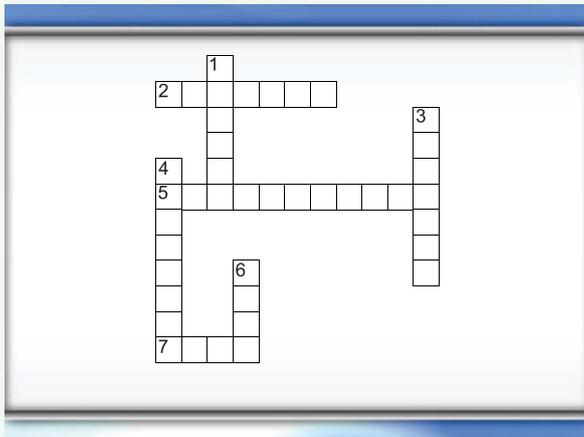
on cybersecurity, which is why the field is experiencing growth at such a rapid pace.



Fig: Final Year student Vishal doing great in field of cyber security and received Hall of fame from so many companies.

Ms. Shail Dubey
Assistant Professor, CS/IT Dept.

Fill suitable 'Personality Adjectives' in the given crossword puzzle.



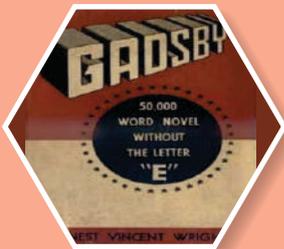
Across

- 2. Peter always helps his mother to wash the dishes and set the table. I think he is very _____.
- 5. My robot cleans the house and makes the bed everyday. My robot is very _____.
- 7. Tom does not help at home. He is a _____ boy.

Down

- 1. Lily's robot can help her with her Math homework. It is very _____.
- 3. Jim does not do what his teacher tells him. He is a very _____ boy.
- 4. My mother likes singing and dancing. She is a very _____ person.
- 6. My mother works evreyday from 7:00 A.M to 10:00 PM. She is so _____.

DO YOU KNOW



1. The novel Gadsby doesn't contain the letter 'e'.

Back in 1939, American author Ernest Vincent Wright published Gadsby, a 50,000-word novel that doesn't use the letter 'e' once. It's more astounding that 'e' is the most commonly used letter in the English (and French!) language.



2. McDonald's once created bubblegum-flavored broccoli.

McDonald's introduced their bubblegum-flavored broccoli, which the fast-food chain developed in 2014 as a tastier version of the leafy green for children but this initiative was a complete failure. McDonald's CEO Don Thompson admitted that kids were confused by the taste.



3. Chewing gum is banned in Singapore.

Singapore also banned chewing gum in an effort to keep the city clean and orderly. The ban was established in 1992. In 2004, exceptions were made for therapeutic, dental, or nicotine gums.



4. The longest place name in the world is 85 letters long.

Taumatawhakatangihangakoauauotamateaturipukaka-pikimaungahoronukupokai-whenuakitanatahu is in New Zealand and is 85 letters long. It's nearly impossible to pronounce. And when it comes to other super long place names, it's followed by *Llanfairpwllgwyngyllgogerychwyrndrobwlllantysiliogogoch* in Wales, *Chargoggagoggmanchauggagoggchaubunagungamaugg* in the U.S., *Tweebuffelsmeteenskootmorsdoodgeskietfontein* in South Africa, and *Azpilicuetagaraycosaroyarenberecolarre* in Spain.

You will get the solution of the puzzle posted in your college WhatsApp groups.



20 Patents

07 Centre of Excellence

25 MoUs for Students Skill Upgradation

04K Students Certifications

20L Consultancy Project

Startup incubation centers in Kanpur (Approved by Govt. of INDIA)

1. IIT Kanpur 2. HBTU 3. Axis Colleges (the only private college)



SAND TANK
Startup Foundation

A step towards innovation, research and entrepreneurship
Now Axis is - IBM Campus & LinkedIn Campus



CENTER OF EXCELLENCE

ORACLE

CISCO Networking Academy

TEXAS INSTRUMENTS

paloalto Cybersecurity Academy

aws academy

celonis

ARTECH

UiPath™

JUNIPER NETWORKS

blueprism University

alteryx SPARKED

MICROCHIP Academic Program

RED HAT ACADEMY

INDUSTRY PARTNERS

IBM

LAKMÉ ACADEMY

Samatrix.io

CAPSKY

KNOWLEDGE PARTNERS

LinkedIn

ASSOCHAM

here

इसरो isro

EduSkills
Nation Building Through Skills

ICTACADEMY®

CII
Confederation of Indian Industry
120 Years - Since 1995

0/100
zerobarracento

ISTE
INDIAN SOCIETY FOR TECHNICAL EDUCATION

PREM JAIN MEMORIAL TRUST