



TULA'S
DEHRADUN

NAACA+

DEPARTMENT OF COMPUTER SCIENCE AND
ENGINEERING

डिजिटल DRISHTI

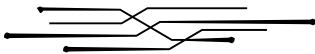


JULY-SEP(2022-2023)



OUTLINE

- 
- 1. About The Department**
 - 2. Departmental Vision & Mission**
 - 3. From The Faculty's Desk**
 - 4. List Of Faculty Members**
 - 5. Editorial Team**
 - 6. Departmental Events**
 - 7. Research and Innovation**
 - 8. Emerging Talent**
 - 9.Placement Opportunities**



ABOUT THE DEPARTMENT

The Computer Science & Engineering Department of Tula's Institute is leading initiatives to increase the quality of education and professionalism in the field of computer science and information technology.

The Department of Computer Science & Engineering is the nerve center of the institution. The department emerged as a powerhouse of innovation and progress within the dynamic landscape of technological evolution and more than 500 latest configuration computers with high-speed data processing and networking. The beat of research innovation remains strong in our department this edition turns the spotlight on the exceptional achievements of our esteemed faculty. Notably, we showcase **Pratibha Dimri** whose recent triumphs include research paper. Our commitment to knowledge exchange and collaboration was evident in the success of the workshop on Intellectual Property Rights, and Guest Lecture on AI & ML facilitating valuable insights and fostering connections within our community. We take pride in celebrating the accomplishments of our distinguished students for being placed. The department includes various teaching aids like a smart classroom, department library, and internet facility. The various programs offered by the Department of Computer Science & Engineering include B.Tech, MCA, and M.tech. The students are exposed to core courses on computer Algorithms, Computer Systems Artificial Intelligence etc. The department also focuses on the industry-academia relationship and for this department arranges various workshops, industrial visits, and guest lectures.



COMPUTER SCIENCE
& ENGINEERING

DEPARTMENTAL VISION & MISSION



Department Vision :

To become the centre of excellence in teaching, research and innovative practices for computing.



Department Mission :

DM 1: To provide a learning ambience to enhance programming skills for problem solving.

DM 2: To integrate the software industry and academia in order to utilise technology for research, innovation and entrepreneurship.

DM 3: To develop professionals with a solid foundation who can think outside the box to adapt green computing solution.

DM 4: To provide a comprehensive computing environment that meets the highest global standards for higher education and lifelong learning.



FROM THE FACULTY'S DESK



Dr. Sandip Vijay

I would want to thank you from the bottom of my heart for the amazing work that went into the most recent edition of " डिजिटल-DrishTi." Your unshakable devotion, extraordinary effort, and limitless inventiveness are evident in every fact of this newsletter. The content, which stands as a monument to our academic achievements and research endeavours is both highly interesting and informative. Your team's commitment is further demonstrated by the beautiful design and the painstaking attention to detail. I sincerely thank the entire team for their vital contribution to maintaining the informed and connected nature of our academic community. Without a doubt, " डिजिटल-DrishTi" has developed into a useful tool in which we can all take pride. Your dedication to quality is admirable, and I look forward to reading your enlightening newsletters regularly.



Dr. Sanjeev Kumar

I congratulate and convey My best wishes to the Department of Computer Science and Engineering and the entire editorial team on the launch of the current edition of newsletter " डिजिटल-DrishTi". As we stand on the threshold of a new academic year, it is with great enthusiasm that I share some creative thoughts and aspirations for our esteemed department. In the dynamic landscape of technology and academia, our CSE department has consistently strived for excellence, nurturing the brightest minds and pushing the boundaries of innovation. It has been only possible due to the sincere efforts of the energetic and hardworking team. I am confident this newsletter will provide a great platform for the interchange and collaboration of ideas to build a digitalized India. Happy Reading!



Mrs. Ritu Pal

I'm excited to consider the department's overall accomplishments as well as the combined accomplishments of our editorial team as we wrap up another fruitful quarter. We have worked ceaselessly for the past three months to generate content that educates, captivates, and motivates our audience. Despite the obstacles encountered, we have successfully surmounted them by means of collaboration, perseverance, and a collective dedication to achieving the highest standards. I would like to express my sincere gratitude to every individual within our team for their diligent efforts and valuable contributions within the department. Collectively, we have shown the potential that can be attained when we unite with a shared objective. As we anticipate the next quarter, I am enthusiastic about seeing our ongoing growth and collaborative innovation. I express my gratitude to the whole department for their ongoing support, effort, and enthusiasm.

LIST OF FACULTY MEMBERS



Dr. Sandip Vijay



Dr. Raghav Garg



Dr. Sanjeev Kumar



**Dr. Ram Bhagwan
(CSE HOD)**



Dr. Anand Gupta



Dr. Ashish Gupta



Dr. Sandeep Kumar



Dr. Ahmad Jamal



Dr. Bharti Kalra



Dr. Sunil Semwal



Dr. Tripuresh Joshi



Mr. Brajendra Sharma



Mrs. Ritu Pal



Mrs. Shivali Pundir



Mr. Rakesh Kumar



Ms. Harshita Chaudhary



Ms. Pratibha Dimri



Mrs. Rashmi Mishra



Mr. Arpit Goel



Mr. Yashpal Sinha



Mrs. Suchi Jain



Mrs. Neha Chauhan



Mrs. Jigyasha
Chandhok



Mr. Girish Bisht



Mr. Sanjay Tyagi



Mrs. Arti Goel



Ms. Akanksha
Srivastav



Ms. Manvi Bohra



Mrs. Suchi Jain



Mrs. Santwana Goel

Workshop on Intellectual Property Rights

On August 8th, 2022, a comprehensive workshop on Intellectual Property Rights (IPR) was conducted by **Dr. Sandeep Kumar**. The workshop aimed to provide participants with a thorough understanding of **IPR**, its significance, and its various aspects.

In today's knowledge-based economy, intellectual property (IP) is a crucial asset for individuals and businesses alike. Protecting your inventions, creative works, and brand identity is essential for fostering innovation and ensuring fair competition. A workshop on intellectual property rights (IPR) provides valuable insights and equips participants with the knowledge to safeguard their intellectual assets.



Benefits:

- Gain a competitive edge by understanding and leveraging IP rights.
- Protect your inventions, brands, and creative works from unauthorized use.
- Unlock the commercial potential of your intellectual assets.
- Navigate the IP landscape with confidence.

Conclusion:

A workshop on intellectual property rights is an invaluable resource for anyone looking to safeguard their innovations and navigate the complex world of IP. By equipping participants with essential knowledge and practical strategies, these workshops empower individuals and businesses to protect their intellectual assets, foster innovation, and achieve long-term success.



Social awareness Workshop on climate Change on Himalayan Divas

Be a part of the solution. Protect our mountains, empower our communities.

On September 10th, 2022, in commemoration of Himalayan Divas, a social awareness workshop was conducted to shed light on the pressing issue of climate change and its impact on the Himalayan region. Led by **Mrs. Jigyasha Chandhok**, the workshop aimed to raise awareness about the unique challenges faced by the Himalayas due to climate change and explore potential solutions and mitigation strategies.



Benefits:

- **Knowledge & Empowerment:** Learn about climate impacts and solutions, become a changemaker.
- **Community Resilience:** Build stronger, more sustainable communities prepared for climate challenges.
- **Environmental Protection:** Contribute to safeguarding the fragile Himalayan ecosystem.
- **Women's Leadership:** Empower women as leaders in climate action and resilience building.



Importance of communication in career making workshop

Don't miss this valuable opportunity to invest in your career development and become a more effective communicator!

On September 29th, 2022, we had the pleasure of hosting a workshop focused on the importance of communication in building a successful career. Led by **Ms. Harshita Chaudhary**, the workshop explored the various facets of communication and provided participants with practical tools and techniques to enhance their communication skills. The workshop emphasized the critical role effective communication plays across all professions and levels within an organization, equipping attendees with valuable insights to navigate professional interactions and achieve career success.



Communication: Your Key to Career Success!

This workshop unlocks the power of effective communication for career advancement.

Learn how to:

- Make a great first impression
- Collaborate effectively in teams
- Lead and influence with confidence
- Navigate challenging conversations
- Craft impactful written and verbal communication
- Boost your employability, advance your career, and build stronger relationships. Invest in your communication skills today!






INNOVATION & RESEARCH COLLABORATION

Gupta, B., Gola, K. K., Jee, N., & Dimri, P. Energy-efficient routing protocol for congestion control in wireless sensor network. In 2022 International Conference on Wireless Communications Signal Processing and Networking (WiSPNET) (pp. 385-390). IEEE.

Congestion is a topic that is still mainly unresolved and little addressed in Wireless Sensor Networks. When a mote receives excess data more than it can handle, it must buffer the redundant or duplicate data. Congestion happens when the finite buffer memory gets packed, forcing additional data to be lost. This wastes the sensor nodes' communication and energy resources, as well as lowering the event detection reliability due to packet drops. A congestion control system based on the optimal rate is developed to deliver energy-efficient transmissions. To optimise power usage throughout the system, a rate-based congestion management technique focusing on cluster routing is proposed. The rate regulation technique maximizes the throughput, extending the lifespan of the network over a longer sampling period. The M-GEAR protocol clusters the nodes at first. The rate management is then carried out with the help of the firefly optimization approach, which is designed for the high packet delivery aspect. Ultimately, M-Gear is used to carry out routing process in order to deliver packets with the maximum potential throughput and the optimized energy.



EMERGING TALENT

Student's Articles



Mr. Sonu Nigam
B.Tech CSE



Mr. Rajnish Kumar
B.Tech CSE

Time Management Techniques

Time management is a crucial skill for college students to master. Balancing academic responsibilities, extracurricular activities, and social life can be overwhelming, but effective time management can help reduce stress and boost productivity.

One popular time management technique is the Pomodoro Technique, which involves breaking down work into 25-minute intervals separated by short breaks. This method helps to maintain focus, increase productivity, and reduce distractions. Another technique is the Eisenhower Matrix, which involves categorizing tasks based on their urgency and importance. This approach helps to prioritize tasks and manage time effectively, focusing on high-priority tasks first and avoiding procrastination.

Additionally, it's essential to establish a daily routine and schedule, allocate specific time slots for each task, and stick to the schedule. Utilizing productivity tools such as calendars, planners, and reminders can help to stay organized and manage time effectively.

In conclusion, effective time management is a crucial skill for college students to succeed academically and maintain a healthy work-life balance. By implementing popular time management techniques, establishing a daily routine, and utilizing productivity tools, students can manage their time efficiently and achieve their goals. Happy studying!

टिप्स और ट्रिक्स

अध्ययन के लिए कुछ उपाय और ढंग जानने से विद्यार्थियों के लिए एक बहुत महत्वपूर्ण कार्यक्रम हो सकता है। यह उन्हें अध्ययन के लिए समय का उपयोग अधिक ही प्रभावी बना सकता है। निम्नलिखित कुछ टिप्स और ट्रिक्स अध्ययन के लिए उपयोगी हो सकते हैं:

समय का प्रबंधन: समय का प्रबंधन एक अहम भाग है जो अध्ययन में कारगर बनाने में मदद करता है। समय का प्रबंधन के लिए कुछ तकनीकें हैं जैसे पोटोडोरो टेक्निक, एआईएम मैट्रिक्स, और अन्यान्य। इनमें से किसी भी विधि का उपयोग करके समय का उपयोग अधिक प्रभावी बनाने में मदद मिल सकती है।

सुरु से ही शुरुआत करें: अध्ययन के लिए सुरु से ही शुरुआत करना अहम है। पहले से ही अध्ययन का प्राथमिकता दिलाने से आप सफल हो सकते हैं। अधिक समय के लिए आवश्यक नहीं है, लेकिन देर तक शुरुआत नहीं करना चाहिए। अध्ययन का आरम्भ करने से पहले अपने लिए एक स्थान और समय चुनें, और अपने अध्ययन के लिए आवश्यक सामग्री संग्रहीत करें।

टिप्स और ट्रिक्स के साथ-साथ, अध्ययन के लिए उचित सामग्री और व्यवस्था की तैयारी करना भी महत्वपूर्ण है। एक अच्छी तरह से तैयारी करने से आप अ



Mr. Mahesh Pandit
B.Tech CSE

Balancing Social Life

Balancing social life and academic responsibilities is an essential skill for college students. It can be challenging to manage time between classes, studying, extracurricular activities, and socializing with friends. However, finding a balance is crucial to maintaining good mental and physical health.

To achieve a balanced social life, it's essential to prioritize academic responsibilities. Set aside dedicated time for studying, attending classes, and completing assignments. Utilize tools such as calendars, planners, and reminders to stay organized and manage time effectively. Once academic responsibilities are met, it's possible to enjoy social activities without guilt or stress.

Additionally, it's essential to establish boundaries and communicate them to friends and acquaintances. Let them know when you are available to socialize and when you need to focus on academic responsibilities. It's also crucial to recognize that it's okay to say no to social invitations if academic responsibilities take priority.

Remember, a balanced social life is essential to overall well-being, and it's possible to maintain one with proper time management and communication. It may take some trial and error, but with practice, balancing academics and social life can become second nature.



Ms. Isha Singh
B.Tech CSE

बाह्य शैक्षणिक गतिविधियाँ

बाह्य शैक्षणिक गतिविधियाँ विद्यार्थी के जीवन में अहम भूमिका निभाती हैं। वे विद्यार्थियों को शैक्षणिक ज्ञान के साथ-साथ समाज से संबंध भी बनाती हैं। वे विभिन्न प्रकार के गतिविधियों से सम्बंधित हैं, जैसे खेल, सेवा, संगीत, नटक, लेखन और कुछ और। गतिविधियों के माध्यम से विद्यार्थियों को नए-नए लोगों से मिलना, साथ में कार्य करना, सहयोग करना और अधिक पढ़ाई करना सीखना होता है।

गतिविधियों का सम्बंध शैक्षणिक ग्रेज के साथ भी होता है। वे विद्यार्थियों के लिए एक बहुमूल्य है जो उन्हें स्वतन्त्र बनाने में मदद करती हैं। वे उनकी शैक्षणिक ग्रेज की शक्ति बढ़ाती है और उन्हें उनके सम्पन्न जीवन के लिए तैयार बनाती हैं। गतिविधियों के जो भी खुशहाली हो, वे उनके जीवन में एक अहम भूमिका निभाती हैं। गतिविधियों का सम्बंध विद्यार्थियों के साथ-साथ विकास और व्यवस्थापन के लिए भी होता है। इसलिए, विद्यार्थियों को अपनी रिकॉर्डरूम में एक अधिक प्रबंधित रूप से गतिविधियों में शामिल होने का महत्वपूर्ण है।



Mr. Kartik Pandey
B.Tech Cse

Save nature

Saving Nature: Our Responsibility, Our Future

Nature, the intricate web of life supporting us all, faces unprecedented challenges. Deforestation, pollution, climate change, and biodiversity loss threaten the delicate balance that sustains our planet. It's time we recognize the urgency and act collectively to save nature, for its sake and our own.

Understanding the Threats:

Deforestation: Clearing forests for agriculture, logging, and development destroys habitats, disrupts ecosystems, and releases vast amounts of carbon dioxide into the atmosphere.

Pollution: From industrial waste and agricultural runoff to plastic in our oceans, pollution poisons our air, water, and soil, harming wildlife and human health.

Climate Change: Rising global temperatures caused by greenhouse gas emissions lead to extreme weather events, rising sea levels, and disruptions to ecosystems and food chains.

Biodiversity Loss: Extinction rates are accelerating at an alarming pace due to habitat destruction, pollution, and climate change, weakening the resilience of ecosystems and impacting vital services like pollination and pest control.

Taking Action:

Reduce Your Carbon Footprint: Choose energy-efficient appliances, conserve energy at home, walk, bike, or use public transportation, and support renewable energy sources.

Consume Responsibly: Reduce, reuse, and recycle to minimize waste, choose sustainable products, and support businesses committed to environmental responsibility.

Protect Natural Habitats: Advocate for the preservation of forests, wetlands, and other vital ecosystems. Support organizations working on conservation and restoration efforts.

Support Sustainable Agriculture: Choose organic and locally grown food to reduce the environmental impact of food production and support farmers who prioritize sustainable practices.

Get Involved: Volunteer with environmental organizations, participate in cleanups, raise awareness, and advocate for policies that protect nature.

Individual actions, when multiplied by millions, can create a powerful force for change. Let's work together to save nature, not just for future generations but for the health and well-being of our planet and ourselves.

SPORTS ACHIEVEMENT



TULA'S
DHIRADUN

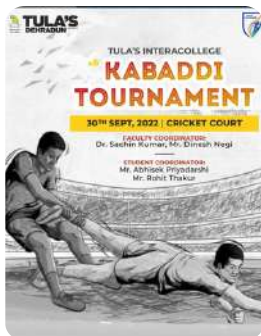
TULA'S INTERCOLLEGE
#3 **BADMINTON TOURNAMENT**

30TH SEPT, 2022 | BADMINTON COURT

FACULTY COORDINATOR:
DR. SACHIN KUMAR
MR. DIVESH NEGI

STUDENT COORDINATOR:
MS. DIKSHI JHA, MS. MANSI
MR. ADAM SAKH

The poster features a central image of a white badminton shuttlecock with a red band, set against a green and white dotted background. The text is in bold, yellow and white fonts.



TULA'S
DHIRADUN

TULA'S INTERCOLLEGE
#5 **KABADDI TOURNAMENT**

30TH SEPT, 2022 | CRICKET COURT

FACULTY COORDINATOR:
Dr. Sachin Kumar, Mr. Divesh Negi

STUDENT COORDINATOR:
Mr. Abhishek Priyadarshi
Mr. Rohit Thakur

The poster features a black and white photograph of two men playing kabaddi on a field. One man is in a crouching position, while the other is lying on the ground. The text is in bold, black and yellow fonts.



TULA'S
DHIRADUN

TULA'S INTERCOLLEGE
#4 **VOLLEYBALL TOURNAMENT**

30TH SEPT, 2022 | VOLLEYBALL COURT

FACULTY COORDINATOR:
Dr. Sachin Kumar, Mr. Divesh Negi

STUDENT COORDINATOR:
Mr. Divyansh Singh, Mr. Talha Pandey
Himanshu Kumar, Sneha Kalya

The poster features a central image of a yellow and blue volleyball. The text is in bold, white and yellow fonts. The background is a blue and yellow gradient.

Placement Opportunities

OUR ACHIEVERS
B.TECH CSE - 2022 BATCH



**ANURAG
CHHETRI**
B.TECH CSE

**ARYA
NANDA**
B.TECH CSE

We Congratulate them
for Being Placed at  **nagarro**

SALARY PACKAGE:
6 LACS PER ANNUM

OUR ACHIEVERS



SHIVAM BHoola
B.TECH CSE

PRACHI PANDEY
B.TECH CSE

AMIT SAR
B.TECH CSE



**ARANYA
SRIVASTAVA**
B.TECH CSE

ARVINDER SINGH
B.TECH CSE

We Congratulate them
for Being Placed at 

SALARY PACKAGE:
5 LACS PER ANNUM

OUR ACHIEVERS
B.TECH CSE - 2022 BATCH



**ANIRUDH
TEEMSHIWALA**
B.TECH CSE

**CHIRANJEEV
MISHRA**
B.TECH CSE

**YASHRAJ
JOSHIWALA**
B.TECH CSE

We Congratulate them
for Being Placed at 

SALARY PACKAGE:
4 LACS PER ANNUM

EDITORIAL TEAM



Mr. Nikhil Mathur
Student coordinator



Mr. Nikhil Bharadwaj
Student coordinator



Mrs. Ritu Pal
Faculty (coordinator)



Mr. B.k Sharma
(Faculty coordinator)

Announcement



The PowerPoint presentation

October 8th, 2022



HORIZON 1.0 Empowering Futures

21st of November, 2022



National Mathematics Day

December 22nd, 2022



2022 S

