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Pt. MOHAN LAL S.D. COLLEGE FOR WOMEN, GURDASPUR

A MULTI FACULTY POST GRADUATE INSTITUTE

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E-MAGAZINE

'DARPAN'

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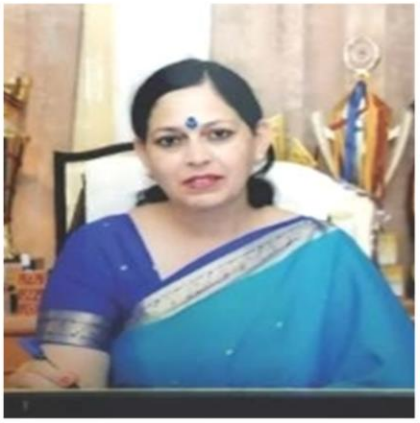


Dear Sdians...

It gives me immense sense of fulfilment when I look at the monthly edition of college e-Magazine 'DARPAN'. The essential purpose of e-magazine 'DARPAN' is to inform, engage and inspire faculty, students, parents, alumni and our stakeholders. This e-magazine endeavors to reflect the values and the long tradition of excellence of the institution itself. Throughout the year campus buzzes with various activities that makes learning experience at SD Gurdaspur, a unique one. The perpetual efforts of the faculty, students and clubs/societies of the college in keeping the campus alive are commendable. Workshops, conferences, competitions, rallies, sports, guest lectures, FDPs, PDPs and a great variety of activities that corroborate academic learning help our students to grow in the real sense.

I congratulate editors for giving practical shape to my idea of e-magazine and wish all the best for inspired and result oriented session.

Dr. (Mrs.) Neeru Sharma

Principal

INTERNATIONAL DAY OF WOMEN AND GIRLS IN SCIENCE

International Day of Women and Girls in Science was celebrated by IQAC, Legal Awareness Club, and Sociology department in association with District Legal Services Authority, Gurdaspur. Advocate Rusa Sabharwal from Legal Services Cell was the resource person. Dr. Rama Gandotra, coordinator of the Legal Awareness club introduced the speaker. This day has been adopted by UNESCO in 2015. Advocate Rusa Sabharwal elaborated various schemes run by District Legal Services Authority. She threw light on the POCSO Act. While addressing the students, she discussed that although Science, Technology, Engineering and Mathematics (STEM) fields are widely regarded as critical to national economies, most countries have not achieved gender equality in STEM. Women have made tremendous progress towards increasing their participation in higher education, but they are still under-represented in these fields. Gender equality has always been a core issue for the United Nations. Women are typically given smaller research grants than their male colleagues while they represent 33.3% of all researchers, only 12% of members of national science academies are women. In cutting-edge fields such as artificial intelligence, only one in five professionals (22%) is a woman. Therefore the United Nations adopted this day to increase parity between genders. 32 students and 8 faculty members attended the lecture.

WORKSHOP ON EXAMINATION MODULE

The IT Club, in collaboration with the Internal Quality Assurance Cell (IQAC), orchestrated a workshop on the Examination Module, tailored for both teaching and non-teaching members of the college. Mr. Kuldeep Singh was the resource person from Viksit Infotech Mohali. The workshop was divided into two sessions. In the first session, attended by non-teaching staff, 06 non teaching members were guided through an exploration of the examination module's functionalities, including exam creation, result analysis etc. Hands-on training sessions enabled attendees to navigate the interface proficiently, ensuring they were equipped with the necessary skills to utilize the module effectively. The second session, comprising teaching staff, saw 31 participants delve into more topics such as grading options, datesheet and academic integrity standards. Discussions were facilitated to address specific challenges and queries pertinent to teaching staff roles in assessment management. Throughout both sessions, emphasis was placed on the module's versatility, highlighting its applicability to various assessment types, including Pre Semester Tests (MST).

WORKSHOP ON SEWING MACHINE



The FD department, under IIC, orchestrated a valuable workshop on sewing machines, sponsored by Usha International Limited. Students were adeptly trained in machine usage, care, and maintenance. Mr. Jobanpreet Singh from Usha Sewing machine taught the students about threading the machine, understanding the stitch patterns, creating buttonholes and attaching buttons etc. 32 students and 5 faculty members attended this workshop.

WORKSHOP ON RESIN ART



The Fashion Designing dept. organised a one day workshop on Resin Art. The young trainer for this workshop was Ms. Pauravi Sawal Resin art Artist. Under her guidance, attendees delved into the fundamentals of this captivating art form. From mastering the basics to gaining insights into raw materials, participants were equipped with the knowledge necessary to explore the limitless possibilities of resin art. Total 40 students attended this workshop.

WORKSHOP ON 'CRITICAL THINKING, DESIGN THINKING, AND INNOVATION DESIGN'

The Science Department and IIC organised a workshop on 'Critical Thinking, Design Thinking, and Innovation Design'. Dr. Ravneet Kaur, Innovation Ambassador and IIC Convener and Dr. Khushboo Aggarwal (Asst. Prof. in Commerce) were the resource persons. 40 students and 4 teachers attended the workshop. The session commenced with an introduction by Dr. Ravneet Kaur, who emphasized the importance of critical thinking in today's dynamic world. She elucidated how critical thinking enables individuals to analyse, evaluate, and synthesize information effectively, essential skills for innovation and problem-solving. Dr. Khushboo's practical approach ensured that participants were equipped with essential skills necessary to navigate the challenges of the contemporary world effectively. Overall, the session left a lasting impact on all attendees, empowering them with valuable insights and tools for future endeavors. At last college principal appreciated the efforts of event incharges.

WORKSHOP ON LIFE STYLE FOR ENVIRONMENT ACTION

National Science Day was celebrated by the Science Club, Environment Association and Celebration cell of IIC in collaboration with Punjab State Council for Science and Technology. On this day, a workshop on Life Style for Environment Action was organised. Dr Gurwinder Singh, Ms. Apoorva Kohli, Mr. Sandeep Singh, Mr. Jaitish Loi, Mr. Amandeep Singh, Mr. Angadjit Singh, Mr. Gurjot Singh were the keynote speakers of the event. The theme of the whole event was to educate the students about saving water, to adopt sustainable food systems, say no to single use plastic, save energy, reduce e-waste, reduce waste and to adopt healthy lifestyles. The whole workshop emphasized soil, water and air pollution. Speakers informed the students that we should work for missions like saving energy, no use of plastic etc. and use bicycles to save energy resources. The event fosters efforts to save energy resources and raises public awareness of climate change and global warming. It also showcases the nation's accomplishments in the areas of conservation and energy efficiency. It explains the action taken to make sure that energy is used effectively, such as reducing the use of a specific energy- consuming service.

WORKSHOP ON PROFESSIONAL MAKEUP



The Cosmetology Department organised a one day workshop on Professional Makeup. Young Trainer for this workshop was Ms. Sehaj Kaur from Pathankot. It emphasized on introducing the participants with techniques of professional makeup. Ms. Sehaj Kaur explained to the students how to start makeup as a makeup Artist. Students were taught how to work on dusky and problematic skin. Product knowledge was provided and products like NARS, Charlotte Tilbury, Dior, Mac etc were recommended to students in order to become a luxury makeup artist. Total 46 students attended this workshop.

LECTURE ON 'INTERNATIONAL DAY OF ZERO TOLERANCE FOR FEMALE GENITAL MUTILATION


The Sociology dept. and Legal Awareness Club organized a lecture on 'International Day of Zero Tolerance for female Genital Mutilation'. Dr. Rama Gandotra explained the students that Female genital mutilation (FGM) comprises all procedures that involve altering or injuring the female genitalia for non-medical reasons and is recognized internationally as a violation of the human rights of girls and women. The practice also violates their rights to health, security and physical integrity, their right to be free from torture and cruel, inhuman or degrading treatment and their right to life when the procedure results in death. She further added that to promote the abandonment of FGM, coordinated and systematic efforts are needed and they must engage whole communities and focus on human rights and gender equality. 35 students along with 2 faculty members attended the event.

WORKSHOP ON LANGUAGE PROFICIENCY



The English dept. and Career Counselling Cell organized a workshop on 'Language Proficiency' in collaboration with Canam plus consultancy, Amritsar. The keynote speaker Mr. Saurabh Ahuja, a Territory Manager from Amritsar, Raghav Sehgal, Branch Manager & Marketing Executive, Mrs. Navdeep Kaur, a senior IELTS trainer, Cambridge certified Mr. Sidana, a country counselor and Mr. Mannish, a Marketing Executive from Canam consultancy were present. During the workshop, Mr. Sidana (Country Counsellor, CanamPlus Consultancy) gave an overview of IELTS for the younger generation and explained the benefits of pursuing a career abroad with scholarships. Ms. Navdeep Kaur, the Cambridge Certified speaker, delivered an informative lecture on the four modules of IELTS and also answered students' questions. 55 students and 4 faculty members attended this event.

VISIT TO SUGAR MILL



The Department of Commerce in collaboration with IIC organized a one-day Field visit to 'The Gurdaspur Co-operative Sugar Mills Ltd., Paniar' for students. A technical session was conducted in which the students benefited in terms of the production as well as marketing details provided by the industry. The basic objective of this visit was to nurture and foster entrepreneurial spirit and innovation among the students and to give an overview of different projects and operational mechanisms of the sugar mill to the students. The team of the sugar mill provided information to the students about manufacturing of sugar. The interaction sessions with the Industry Experts and Engineers were very informative. Students come to know about the production process, packaging, labeling and logistics management. They also got information about various job-avenues in such industries and how to apply for that. 40 students of undergraduate classes along with 3 faculty members joined this field visit.

VISIT TO SCIENCE CITY

The Science Club organized an educational visit to Pushpa Gujral Science City, Kapurthala along with 50 students and 3 faculty members. Students visited the fun science gallery, space and aviation gallery, amazing living machines gallery, sports gallery, energy park, virtual reality gallery, cyber space gallery and dinosaur park. They also enjoyed the 3D show, Laser show, Earthquake and flight simulator. The students then went to the climate change zone where students learn about the climate changes. It was a wonderful experience for the students

SEMINAR ON TRAFFIC EDUCATION

A seminar was organized by the Youth Club, Sports Club and Physical Education Department of the college in collaboration with Nehru Yuva Kendra, Gurdaspur. Mrs. Sandeep Kaur, Youth officer of Nehru Yuva Kendra was the resource person. Noteworthy contributions came from ASI Subhash Chandra and ASI Amandeep Singh, representing the Traffic Education Cell of Gurdaspur. Their insights and experience added immense value to the seminar, enriching the understanding of attendees regarding traffic regulations. A pivotal aspect of the event was the display of a flex near the scooty stand within the college campus. Mr. Neeraj spearheaded this initiative, ensuring maximum visibility and impact. 56 students and 5 faculty members attended this event.

CONFERENCE ON CREATIVE WRITING

The English dept. organized the National Conference on 'Creative Writing'. Dr. Pritam Priya Goswami, (Asst. Prof.), Don Bosco University, Assam, Dr. Vijay Mehta, Dean, Arni University, Kathgarh, Dr. Siddharth Satpathy, Asst. Prof., Central University, Hyderabad acted as resource persons and shared their insightful views on creative writing. The conference kicked off in hybrid mode. Dr. Vijay Mehta graced the event with his benign presence. He emphasized the role of language acquisition and behavioral aspects in Creative Writing as he delivered an enlightening lecture on Creative Writing and its various genres. He enriched the session by citing instances from Mahabharata and Napoleon Bonaparte's dynasty, showcasing the depth of writing. Dr. Pritam Priya Goswami delved into the process of Creative Writing, highlighting the importance of imagination and fantasy. She also provided valuable perception in the domain of effective writing. Dr Siddharth Satpathy shared his immense knowledge of mastering the language and the vital role of social media in writing effectively. He emphasized getting familiar with the audience before writing for them and encouraged students to pursue writing articles and blogs as a pathway to eventually writing a novel. He also highlighted the aspect of research in creative writing. The vote of thanks was proposed by Dr. Dinesh Sharma, Head of the English Department, expressing gratitude to all the resource persons, students, and faculty members for making the conference a resounding success. 203 students and 4 faculty members attended this event. College Principal appreciated the efforts of English department.

WORKSHOP ON FINANCIAL AWARENESS FOR YOUTH

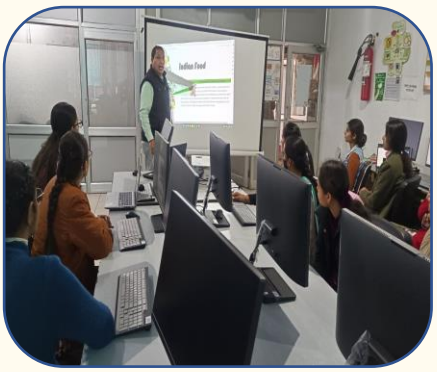
The Commerce dept. in collaboration with IIC and NISM conducted 2 days Workshop on 'Financial awareness for Youth'. Mr. Ashok Singla from NISM and CSR initiative of Aditya Birla was the resource person. This initiative aimed at empowering participants with essential financial knowledge. Over 10 intensive hours across two days, participants delved into a wealth of topics including budgeting, investment avenues, risk management, and career opportunities in the securities market. With 237 slides and 8 comprehensive sessions, the program left no stone unturned in equipping attendees with vital financial literacy skills. A total of 55 students and 6 faculty members from the Commerce Department participated in this enriching program. Their active engagement and interaction throughout the workshop underscored the program's success in meeting its objectives.

In recognition of his valuable contribution, College Principal Dr. Neeru Sharma honored Mr. Ashok Singla with a token of gratitude. Overall, the workshop was a resounding success, significantly enhancing the financial awareness and literacy of all attendees.

CAMPUS TO CORPORATE TRAINING SESSION

The IQAC, IIC and Career Counseling, Placement and Guidance Cell organised 5-day training programme from 19th Feb to 24th Feb 2024 a CSR initiative in collaboration with DBEE Gurdaspur and Naandi Foundation and Mahindra pride Classroom under the directions of District Administration, Sh Purshotam Singh, District Employment and Generation Training Officer. Sh. Subhash Chandar, ADC General acted as a Chief Guest and inaugurated this program. Ms. Sonia Rana, a certified trainer and Mahindra Pride classroom was the course instructor. In this 'Campus to Corporate' training program, students were imparted training on essential Soft Skills and Communication Skills. They were given training on Professional Grooming, Knowledge of Resume building Tools, elements of Resume, Knowledge of Job portals and how to create profiles on the Job portals and Interview facing Skills. The resource person elaborated on the importance of adopting positive Body Language and how to create a positive first impression on others. On the last day, a mock interview was conducted by the trainer in which one on one interaction was done. This program certainly enhanced the confidence level of the students and they have realized the importance of Employability skills for their better professional growth. 60 students attended this training programme. Certificates were awarded to all the participants on the concluding day. College Principal appreciated efforts of DBEE Gurdaspur for selecting our campus for such training.

WEB DEVELOPMENT TRAINING

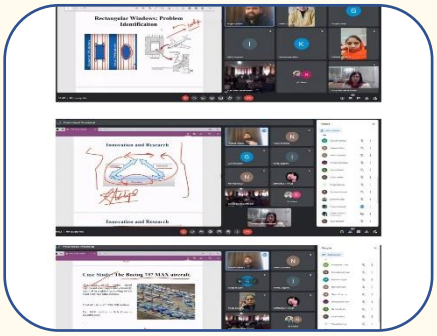

The Computer Science Department organised a two-week web development training program from 12th February to 28th Feburary, 2024, specifically tailored for final-year students pursuing M.Sc. (CS) and BCA degrees. Mr. Sachin from Hard Lines Institute was the resource person. This initiative aimed at furnishing participants with practical experience in software development while honing their skill sets in the domain. Through a meticulously crafted curriculum, the program sought to bridge the gap between theoretical knowledge and its real-world applications, thereby better-preparing students for the challenges inherent in the field of Computer Science. 31 students attended this programme.

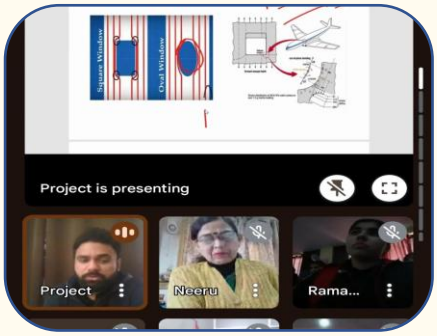
GUEST LECTURE ON ETHICAL EDUCATION



The Punjabi department organized a Guest Lecture on 'Ethical Education' in which Mr. Baljit Singh, President, Guru Gobind Singh Study Circle, Ludhiana was the keynote speaker. He said that in the present time, etiquettes are missing among the young generation which is a matter of concern. The young generation should adopt their values, traditions, cultural customs, food and rich heritage. He emphasized on adopting simple a lifestyle by telling the verses of Sri Guru Nanak Dev Ji's humility and tolerance. He suggested students to follow good habits of others and wise use of mobiles. During the event 45 students and 4 faculty members were present.

EXPERT TALK ON THE PROCESS OF INNOVATION DEVELOPMENT





The Institution Innovation Council (IIC) in collaboration with the IT Club hosted a webinar titled 'Innovation Development Process, TRL, and Lab Technologies Commercialization,' in which Er. Somak Basu, CEO of One Quest Technologies acted as the resource person. Er. Basu elucidated the innovation development process, emphasizing stages like ideation, prototyping, testing, and scaling. He also discussed the importance of Technology Readiness Levels (TRLs) in assessing technological maturity and strategies for commercializing lab technologies. Over 100 students actively participated in the webinar, underscoring its significance.

IMPORTANCE OF READING

To promote the habit of reading among students, the BYAS Club organized an event called 'Inspiring A Passion for Reading among Students'. The event included a motivational video on 'Power of Reading' and a motivational lecture was also delivered that demonstrated how reading can improve one's verbal and intellectual skills. Dr. Sukhwinder Kaur explained the benefits of reading newspapers and autobiographies. Dr. Dinesh Sharma emphasized the importance of reading literary writers and understanding their works. 50 students attended the session.

CELEBRATING GLOBAL MOVIE DAY

The English Department celebrated Global Movie Day with great enthusiasm. The event featured an insightful and engaging movie titled 'The Guide' and students from the final year of all streams were invited to watch it. Global Movie Day is celebrated every year to recognize the power of movies to connect, inspire and reach people around the world. The chosen movie, "The Guide", was an ideal choice, as it portrayed an intense romance to a philosophical allegory that captivated and thrilled the students. They were fully engaged throughout the screening and even made notes of the essential aspects as the movie was part of their curriculum. According to NEP 2020, a holistic and multidisciplinary education inclusive of ICT would aim to develop all capacities of students. Therefore, regular movie sessions could significantly improve students' academic and holistic performance. Over 120 students watched the movie.

MORAL EDUCATION TEST

The Punjabi Department organises 'Moral Education Test' under Guru Gobind Singh Study Circle, Ludhiana every year. This year 29 students appeared in the examination from different streams and cleared the exam with excellent results. S. Baljit Singh, S. Gurpreet Singh and S. Manpreet Singh from Guru Gobind Singh Study Circle, Ludhiana visited the college to felicitate the students, principal and incharges on 15th February 2024. They honored Principal Dr.(Mrs.) Neeru Sharma with mementos, certificates and books. They also honored Dr. Sukhwinder Kaur, HOD and other faculty members of Punjabi dept., Mrs. Harjit Kaur Kalsi, Mrs. Kamlesh Kumari and Mrs. Mandeep Kaur with books and certificates. Memento were awarded to seven students who secured 75% marks, medals were given to six students who secured 70% marks and the rest of the students were honored with appreciation certificates.

CELEBRATING BASANT PANCHAMI


NSS and the Youth Club of the college organized the Basant Panchami festival. Yellow sweet rice were distributed to the entire staff and students. Every year on Basant Panchami, the college's Environment Association organizes a bird feeding arrangement to mark the change of season. Five students of the Environment Association and two faculty members organised this event. The Home Science department organized a competition 'Yellow Colour Dish Making', where 16 students participated with great interest. The competition comprised two segments: snack making and platter making. Music Department students chanted bhajans.

AN AWARENESS PROGRAMME ON 'LYMPHATIC FILARIASIS'

The NSS unit and Health Club organised an Awareness programme on lymphatic filariasis as directed by the Ministry of Youth Affairs and Sports Government of India. Mrs. Gurdeep Kaur explained lymphatic filariasis disease, its causes, and symptoms, it's another name i.e. elephantiasis. She explained about the disease and long-term damage to the lymph system causes swelling of the legs, arms, and genitalia. It also increases the risk of frequent bacterial infections that harden and thicken the skin. Dr. Sukwinder Kaur explained that the treatment of lymphatic filariasis consists of antibiotics and anti-parasites. 20 students along with 3 faculty members attended the lecture.

CHARITABLE PROJECTS

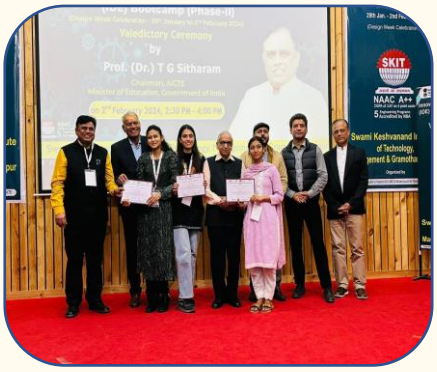
Central Association of the college and NSS organised Neki Ki Diwar and Free Dental Checkup' in collaboration with 'Bharat Vikas Parishad' in our adopted village 'Babowal'. This event was dedicated to Revered Late Sh. Upkar Krishan Sharma Ji (Former President of GGDSD College Society, Chandigarh), whose birth anniversary falls on 28th February. In Neki Ki Diwar volunteers from the Central Association and NSS, Madam principal, and teachers brought items from their homes that could be useful for others, including clothes, stationery, and eatables. These were donated to Babowal School and gurudwara for needy people.

Dr. Sandeep and Dr. Vijay conducted a comprehensive dental examination for the children. Approximately, 70 students received a dental check-up, and those dental issues were guided by the doctor. All the children were given toothbrushes and toothpaste. The event was graced by the President of Bharat Vikas Parishad and Mr. Rajesh Gupta.

DISCUSSION ON 'INFLUENCE OF SOCIAL MEDIA ON YOUTH'

The Open Mike Club organized an insightful open discussion on the 'Impact of Social Media on Youth', attended by 51 participants from various streams on 28th February, 2024. Led by an expert panel including Dr. Neeru Sharma(College Principal), Mrs. Daljinder Kaur (Vice Principal) and Dr. Rama Gandotra (IQAC Coordinator). The event aimed to foster dialogue and critical thinking among students regarding the profound implications of social media. Positive impacts highlighted social media's role in communication, while concerns were raised about its negative effects on self-esteem, cyberbullying, and mental health. The expert panel recommended comprehensive digital literacy programs, parental engagement and promotion of offline activities. The discussion provided valuable insights into both the benefits and challenges of social media, emphasizing the need for responsible usage and support systems.

STUDENTS ACHIEVEMENTS



From January 29th to February 2nd, 2024, the Ministry of Education Innovation Cell, in collaboration with the Wadhwani Foundation and AICTE, organized an intensive Innovation, Design and Entrepreneurship Boot Camp (Phase II). The boot camp aimed to equip students with essential skills and knowledge to thrive in the entrepreneurial landscape. Over the course of five days, participants engaged in a comprehensive curriculum covering various aspects of innovation and entrepreneurship. On the first day, the focus was on 'Design Thinking for Entrepreneurs' providing students with a framework to ideate and prototype innovative solutions.

The second day delved into the 'Human-Centered Approach to Opportunity Discovery', emphasizing the importance of understanding users' needs and preferences in identifying viable business opportunities.

Day three centered on 'Designing Success', wherein participants learned about strategies for effective product and service development, ensuring market relevance and customer satisfaction.

The fourth day was dedicated to "Building Sustainable Business Models," wherein students gained insights into creating business models that are both financially viable and environmentally sustainable.

Finally, on the fifth day, the emphasis shifted to "Overs and Face for Student Startup," where participants honed their pitching skills and presented their innovative ideas to a panel of experts.

Among the attendees, Tavneet Kaur represented our institution at Jaypee Institute of Information Technology in Noida, Uttar Pradesh. Meanwhile, our students Manvi, Shruti Rana, and Sunakshi participated at Swami Keshvanand Institute of Information and Technology in Jaipur, Rajasthan and these students had the opportunity to visit Bhamashah Techno Hub, recognized as India's largest startup hub. Additionally, Nandini Gupta, Ankita Sharma, Nandini Jasrotia, and Vanshika Uttam represented our institution at Karnavati University in Gujarat.

INTER COLLEGE COMPETITION

Our college students showcased their excellence at the prestigious Grand Annual Event ‘Utsav 2024’ organized by the Golden Group of Institutions organized by the Golden Group of Institutions, Gurdaspur. Manjot's outstanding performance secured the 2nd position in poster making, while Deepika's mastery in rangoli earned her the top spot. Additionally, Jasnoor, Harshpreet, and Supampreet participated in programming, with Ramandeep achieving a commendable rank of C in the participation category. Najma and Khushboo both excelled, securing the 2nd position in collage making, while Sadhna's finesse in nail art secured her the 2nd place. Krishma, Gurlin, Rupinder, Ramanjeet, Jashan, and others also showcased their talents in various competitions, contributing significantly to the college's success. The fashion show team, comprising fashion design students, clinched the 3rd position. Special recognition goes to Shruti for securing 1st place in the rangoli competition and to Anakh for achieving 2nd place in mehandi. Nandini and Iram's efforts were acknowledged with a B ranking in logo design appreciation. These accomplishments reflect the dedication and skill of our students, earning praise from the college principal.

THE IMPACT OF ARTIFICIAL INTELLIGENCE ON LEARNER

Artificial intelligence (AI) systems offer effective support for online learning and teaching, including personalizing learning for students, automating instructors' routine tasks, and powering adaptive assessments. However, while the opportunities for AI are promising, the impact of AI systems on the culture of, norms in, and expectations about interactions between students and instructors are still elusive. In online learning, learner–instructor interaction (inter alia, communication, support, and presence) has a profound impact on students' satisfaction and learning outcomes. Thus, identifying how students and instructors perceive the impact of AI systems on their interaction is important to identify any gaps, challenges, or barriers preventing AI systems from achieving their intended potential and risking the safety of these interactions. In recent years, the integration of Artificial Intelligence (AI) into educational systems has revolutionized the way learners and instructors interact in online learning environments. This transformative technology has brought about significant changes in the dynamics of education, particularly in the realm of learner-instructor interaction. This article explores the multifaceted impact of AI on learner-instructor interaction in online learning, examining its benefits, challenges, and implications for the future.

Enhancing Personalized Learning Experiences

AI-powered algorithms analyze vast amounts of data to understand each learner's unique needs, preferences, and learning styles. By leveraging this data, online learning platforms can provide personalized learning experiences tailored to individual learners. This personalization extends to the interactions between learners and instructors, allowing instructors to deliver targeted feedback, resources, and support to each student based on their specific learning requirements.

According to a study by Kizilcec et al. (2017), AI-driven personalized learning systems significantly improve learner engagement and achievement in online courses by adapting the content and pace of instruction to match the learner's abilities and interests. This adaptive approach fosters a more dynamic and effective interaction between learners and instructors, leading to better learning outcomes.

Facilitating Timely and Meaningful Feedback

One of the key components of effective learner-instructor interaction is feedback. Timely and constructive feedback plays a crucial role in guiding learners' progress, identifying areas for improvement, and reinforcing learning objectives. AI technologies, such as natural language processing and machine learning, enable automated feedback mechanisms that provide learners with immediate responses to their inquiries, assignments, and assessments.

Research by Siemens et al. (2019) highlights the effectiveness of AI-driven feedback systems in enhancing learner-instructor interaction by offering personalized and contextually relevant feedback in real-time. These systems not only lighten the workload for instructors but also ensure that learners receive continuous support and guidance throughout their learning journey.

Fostering Collaborative Learning Communities

AI-powered online learning platforms facilitate the creation of vibrant and collaborative learning communities where learners can interact with peers and instructors from diverse backgrounds and locations. Through features such as discussion forums, group projects, and virtual classrooms, learners can engage in meaningful exchanges of ideas, collaborate on assignments, and receive peer-to-peer support.

A study conducted by Zhang et al. (2020) underscores the role of AI in fostering collaborative learning environments by facilitating communication and knowledge sharing among learners and instructors. By promoting active participation and collaboration, AI-driven platforms enrich the learner-instructor interaction and create opportunities for collective learning experiences.

Addressing Challenges and Ethical Considerations

While AI offers promising solutions to enhance learner-instructor interaction in online learning, it also presents certain challenges and ethical considerations. One such challenge is the potential bias embedded within AI algorithms, which may inadvertently perpetuate inequalities in education by favouring certain groups of learners over others.

Research by Veletsianos and Houlden (2020) highlights the need for transparency and accountability in the design and implementation of AI-driven educational technologies to mitigate biases and ensure equitable access to learning opportunities. Additionally, ethical considerations regarding data privacy, consent, and the responsible use of learner data must be carefully addressed to uphold the integrity of learner-instructor interactions in online learning environments.

Future Directions and Implications

As AI continues to evolve, its impact on learner-instructor interaction in online learning is expected to deepen, presenting both opportunities and challenges for education stakeholders. Future research should focus on exploring innovative AI-driven approaches to enhance learner engagement, promote collaboration, and personalize learning experiences further.

Moreover, policymakers, educators, and technology developers must collaborate to establish clear guidelines and standards for the ethical development and deployment of AI in education. By fostering a culture of responsible innovation and inclusivity, we can harness the full potential of AI to transform learner-

instructor interaction and advance the quality and accessibility of online learning worldwide.

In conclusion, Artificial Intelligence is revolutionizing learner-instructor interaction in online learning by enabling personalized learning experiences, facilitating timely feedback, fostering collaborative learning communities, and addressing various challenges and ethical considerations. As AI continues to reshape the landscape of education, it is imperative for stakeholders to embrace its potential while remaining vigilant about its implications for teaching and learning.

References:

Kizilcec, R. F., et al. (2017). "Deep Neural Networks For Predicting Student Performance on MOOCs." Proceedings of the Fourth (2017) ACM Conference on Learning@ Scale.

Siemens, G., et al. (2019). "Feedback Interventions and Students' Writing Revisions in an Intelligent Tutoring System." Computers & Education, 128, 407-424.

Zhang, D., et al. (2020). "Artificial Intelligence in Education: State-of-the-Art Technologies and Challenges." IEEE Access, 8, 112479-112509.

Veletsianos, G., & Houlden, S. (2020). "Learning and Teaching with Artificial Intelligence in Higher Education: A Systematic Review." International Journal of Educational Technology in Higher Education, 17(1), 1-32.

MRS. POONAM SETH

ASSISTANT PROFESSOR

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IMPACT OF FASHION ON THE YOUNG GENERATION

Fashion significantly impacts the younger generation, influencing various aspects of their lives, including identity, social interaction, economic behavior, and psychological well-being. It serves as a medium for personal and group identity formation, allowing self-expression and affiliation with social groups. However, it also subjects young people to peer pressure and the need for social acceptance, which can lead to both positive and negative outcomes. Fashion drives consumer behavior economically, fostering materialism while potentially causing financial strain. Psychologically, fashion can boost self-esteem and confidence but also contribute to anxiety and body image issues, influenced by media portrayals of beauty standards. Culturally, fashion promotes expression and exchange, with youth culture driving innovation and trends. The environmental impact of fashion is twofold, with fast fashion contributing to degradation and a growing awareness the youth encourage stainability among eco-friendly practices

Culturally, fashion promotes expression and exchange, with youth culture driving innovation and trends. The environmental impact of fashion is twofold, with fast fashion contributing to degradation and a growing awareness of sustainability among the youth encouraging eco-friendly practices. The digital era amplifies fashion's influence through social media platforms and online shopping, making fashion more accessible and influential. Additionally, fashion opens educational and career opportunities, fostering entrepreneurial endeavors. Fashion's multifaceted impact on young people necessitates a balanced approach to harness its benefits while mitigating its challenges.

1. IDENTITY AND SELF-EXPRESSION

- **Personal Identity: Fashion allows young people to express their individuality and develop a sense of self. By choosing what to wear, they convey personal tastes, preferences, and sometimes values.**

- **Group Identity: Fashion also serves as a means to affiliate with certain social groups, subcultures, or movements, reinforcing a sense of belonging.**

2. SOCIAL INTERACTION AND PEER PRESSURE

- **Social Acceptance: Wearing trendy styles can be a way to gain acceptance and status within peer groups. Conversely, failing to adhere to fashion norms can lead to social exclusion or bullying.**
- **Peer Influence: Young people often experience pressure to conform to the fashion choices of their friends and peers, which can impact their clothing decisions and overall style.**

3. ECONOMIC BEHAVIOR

- **Consumerism: Fashion drives consumer behavior among the young, leading to frequent purchases of clothing and accessories. This can contribute to economic activity but also to excessive consumerism.**
- **Economic Strain: Keeping up with fashion trends can be financially burdensome, especially for families with limited resources. It may also foster materialistic values.**

4. PSYCHOLOGICAL WELL-BEING

- **Self-Esteem: Fashion can positively affect self-esteem and confidence when young people feel good about their appearance. However, it can also lead to anxiety and low self-esteem if they feel they do not meet certain standards.**
- **Body Image: The portrayal of fashion models and ideals can influence young people's body image, sometimes leading to issues such as eating disorders or body dysmorphia.**

5. CULTURAL AND SOCIETAL INFLUENCE

- **Cultural Expression: Fashion is a way for young people to connect with and express their cultural heritage. It can also be a medium for cultural exchange and understanding.**

- **Trends and Innovation: Youth culture often drives fashion trends, leading to innovation and the evolution of styles. Young designers and influencers play a significant role in shaping fashion.**

6. ENVIRONMENTAL IMPACT

- **Sustainability Awareness: Increasing awareness of environmental issues has led to a growing interest in sustainable fashion among the younger generation. This includes a preference for eco-friendly materials, ethical production practices, and second-hand clothing.**
- **Fast Fashion: The popularity of fast fashion among young people contributes to environmental degradation due to the rapid production and disposal of clothing.**

7. DIGITAL AND SOCIAL MEDIA INFLUENCE

- **Social media: Platforms like Instagram, TikTok, and YouTube heavily influence fashion trends among the young. Influencers and celebrities often set trends that are quickly adopted.**
- **Online Shopping: The rise of e-commerce has made fashion more accessible, allowing young people to explore and purchase a wide variety of styles easily.**

8. EDUCATION AND CAREER

- **Fashion Education: Interest in fashion can lead to educational and career opportunities in design, marketing, merchandising, and other related fields.**
- **Entrepreneurship: The fashion industry offers numerous opportunities for young entrepreneurs to start their brands or businesses.**

In summary, fashion significantly impacts the younger generation by shaping their identities, social interactions, economic behaviors, and psychological well-being. While it offers avenues for self-expression and creativity, it also poses challenges related to peer pressure, consumerism, and body image. Balancing these influences is crucial for the healthy development of young individuals.

REFERENCES: - Steele, V. (1997). Fashion, Culture, and Identity. University of Chicago Press.
2 Kaiser, S. B. (2012). Fashion and Cultural Studies. Berg.
3. Frith, H., & Gleeson, K. (2004). Clothing and Embodiment: Men Managing Body Image and Appearance. Psychology of Men & Masculinity, 5(1), 40-48.
4. Arthur, L. B. (1999). Religion, Dress, and the Body. Berg.
5. Solomon, M. R., & Rabolt, N. J. (2004). Consumer Behaviour in Fashion. Prentice Hall.

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RECENT TRENDS IN IMAGE PROCESSING AND PATTERN RECOGNITION

Image processing and pattern recognition are integral components of numerous applications across various fields, including computer vision, medical imaging, robotics, and remote sensing. Recent advancements in technology, particularly in areas such as deep learning, convolutional neural networks (CNNs), and generative adversarial networks (GANs), have revolutionized the landscape of image processing and pattern recognition, enabling more sophisticated and accurate analysis of visual data. This article explores some of the recent trends and innovations in image processing and pattern recognition, highlighting their applications, benefits, and implications for future research and development.

Deep Learning and Convolutional Neural Networks (CNNs)

Deep learning, a subset of machine learning, has emerged as a dominant paradigm in image processing and pattern recognition. Convolutional Neural Networks (CNNs), in particular, have demonstrated remarkable performance in tasks such as image classification, object detection, and semantic segmentation. CNNs are composed of multiple layers of interconnected neurons that automatically learn hierarchical representations of visual features from raw pixel data.

Recent trends in CNNs include the development of deeper and more complex architectures, such as ResNet, DenseNet, and EfficientNet, which achieve state-of-the-art performance on benchmark datasets like ImageNet. Additionally, techniques such as transfer learning and fine-tuning enable the transfer of knowledge from pre-trained models to new tasks with limited training data, facilitating rapid development and deployment of image processing applications.

Generative Adversarial Networks (GANs)

Generative Adversarial Networks (GANs) have garnered significant attention in recent years for their ability to generate realistic and high-fidelity images. GANs

consist of two neural networks, a generator and a discriminator, which are trained simultaneously in a competitive manner. The generator learns to generate synthetic images that are indistinguishable from real images, while the discriminator learns to differentiate between real and fake images.

Applications of GANs in image processing include image synthesis, style transfer, and image super-resolution. For example, StyleGAN has been used to generate photorealistic images of human faces, while CycleGAN enables domain adaptation and image-to-image translation tasks. GANs also hold promise for applications in healthcare, art generation, and entertainment, among others.

Explainable AI and Interpretable Models

As AI systems become increasingly complex and ubiquitous, there is growing interest in making these systems more transparent and interpretable. Explainable AI (XAI) techniques aim to provide insights into the decision-making process of AI models, thereby enhancing their trustworthiness and usability in real-world applications.

Recent advancements in XAI include methods for visualizing and interpreting the internal representations of deep neural networks, as well as techniques for generating human-readable explanations for model predictions. These developments have important implications for image processing and pattern recognition, particularly in domains where interpretability and accountability are critical, such as healthcare and autonomous driving.

Edge Computing and IoT Integration

With the proliferation of Internet of Things (IoT) devices and edge computing technologies, there is a growing demand for efficient and lightweight algorithms for image processing and pattern recognition. Edge devices, such as smartphones, drones, and wearable devices, often have limited computational resources and bandwidth, making on-device processing and analysis essential for real-time applications.

Recent trends in edge computing and IoT integration include the development of compact and energy-efficient deep learning models that can run on resource-constrained devices. Techniques such as model compression, quantization, and pruning enable the deployment of deep learning models on edge devices with minimal memory and computational requirements, enabling a wide range of image processing applications at the edge.

Ethical and Social Implications

While recent advancements in image processing and pattern recognition offer tremendous potential for positive impact, they also raise important ethical and social considerations. Issues such as bias and fairness, privacy and security, and accountability and transparency must be carefully addressed to ensure that AI technologies are developed and deployed responsibly.

Biases present in training data can lead to unfair or discriminatory outcomes in AI systems, particularly in applications such as face recognition and criminal justice. Privacy concerns arise from the collection and analysis of large-scale visual datasets, which may contain sensitive or personally identifiable information. Moreover, the opaque nature of deep learning models makes it challenging to understand and mitigate potential risks and biases, highlighting the need for greater transparency and accountability in AI development and deployment.

Future Directions and Conclusion

The field of image processing and pattern recognition is evolving rapidly, driven by advances in deep learning, computer vision, and edge computing technologies. Future research directions include the development of more robust and interpretable AI models, the integration of AI with IoT and edge devices, and the exploration of novel applications in domains such as healthcare, agriculture, and environmental monitoring.

In conclusion, recent trends in image processing and pattern recognition are reshaping the way we analyze and interpret visual data, with profound implications for a wide range of applications and industries. By harnessing the power of deep learning, GANs, and other cutting-edge technologies, researchers and practitioners can continue to push the boundaries of what is possible in image processing and pattern recognition, unlocking new opportunities for innovation and discovery.

References:

He, K., et al. (2016). "Deep Residual Learning for Image Recognition." Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR).

Goodfellow, I., et al. (2014). "Generative Adversarial Nets." Advances in Neural Information Processing Systems (NIPS).

Samek, W., et al. (2019). "Explainable Artificial Intelligence: Understanding, Visualizing and Interpreting Deep Learning Models." IT - Information Technology, 61(5-6), 185-194.

Miotto, R., et al. (2017). "Deep Learning for Healthcare: Review, Opportunities And Challenges." Briefings in Bioinformatics, 19(6), 1236-1246.

Shen, D., et al. (2021). "Interpretability of Deep Learning in Medical Image Analysis: A survey." Medical Image Analysis, 67, 101836.

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THE ROLE OF ARTIFICIAL INTELLIGENCE IN HEALTHCARE

Artificial Intelligence (AI) is transforming the landscape of healthcare, revolutionizing the way medical professionals diagnose, treat, and manage diseases. With advancements in machine learning, natural language processing, and robotics, AI has the potential to improve patient outcomes, streamline workflows, and enhance the overall efficiency of healthcare delivery systems. This article explores the multifaceted role of AI in healthcare, examining its applications, benefits, challenges, and implications for the future.

APPLICATIONS OF AI IN HEALTHCARE

Medical Imaging: AI algorithms are increasingly being used to analyze medical images such as X-rays, MRIs, and CT scans, assisting radiologists in detecting abnormalities and making accurate diagnoses. Deep learning models can identify patterns and anomalies in images with high accuracy, speeding up the diagnostic process and reducing the risk of human error.

Clinical Decision Support: AI-powered clinical decision support systems help healthcare providers make evidence-based treatment decisions by analyzing patient data, medical literature, and best practices. These systems can suggest treatment plans, predict patient outcomes, and alert clinicians to potential drug interactions or adverse events, improving patient safety and quality of care.

Remote Monitoring and Telehealth: AI-enabled wearable devices and remote monitoring tools allow healthcare providers to track patients' vital signs, symptoms, and medication adherence in real-time. Telehealth platforms leverage AI to facilitate virtual consultations, remote diagnosis, and remote patient monitoring, enabling patients to access healthcare services from the comfort of their homes.

Drug Discovery and Development: AI accelerates the drug discovery process by analyzing large datasets, identifying drug targets, and predicting the efficacy and safety of potential drug candidates. Machine learning algorithms can analyze

molecular structures, biological pathways, and clinical trial data to identify promising drug candidates and optimize treatment regimens.

Personalized Medicine: AI-driven predictive analytics and genomics enable personalized medicine approaches by analyzing patients' genetic profiles, lifestyle factors, and medical history to tailor treatment plans and interventions. By considering individual variations in disease susceptibility and treatment response, personalized medicine aims to optimize therapeutic outcomes and minimize adverse effects.

BENEFITS OF AI IN HEALTHCARE

Improved Diagnostic Accuracy: AI algorithms can analyze medical images and patient data with greater speed and accuracy than human clinicians, leading to earlier detection and more accurate diagnosis of diseases such as cancer, cardiovascular disorders, and neurological conditions.

Enhanced Treatment Planning: AI-powered clinical decision support systems assist healthcare providers in developing personalized treatment plans based on patients' unique characteristics, medical history, and risk factors, leading to more effective and targeted interventions.

Increased Efficiency and Productivity: AI automates routine administrative tasks, such as scheduling appointments, updating electronic health records, and processing medical claims, freeing up healthcare professionals to focus on patient care and clinical decision-making.

Cost Savings: By optimizing workflows, reducing diagnostic errors, and preventing unnecessary hospital admissions, AI has the potential to lower healthcare costs and improve resource allocation in healthcare systems.

Expanded Access to Care: Telehealth and remote monitoring technologies powered by AI enable patients in remote or underserved areas to access healthcare services, receive timely interventions, and participate in clinical trials, thereby expanding access to quality care.

CHALLENGES AND ETHICAL CONSIDERATIONS

Data Privacy and Security: The widespread adoption of AI in healthcare raises concerns about the privacy and security of patient data, particularly in relation to data breaches, unauthorized access, and misuse of sensitive information. Robust data encryption, access controls, and compliance with data protection regulations are essential to safeguard patient privacy and confidentiality.

Bias and Fairness: AI algorithms may inherit biases from training data, leading to disparities in healthcare outcomes across different demographic groups. Addressing bias and ensuring fairness in AI models require transparent methodologies, diverse training datasets, and ongoing evaluation and validation of algorithms.

Regulatory Compliance: The rapid pace of innovation in AI poses challenges for regulatory agencies tasked with overseeing the safety, efficacy, and ethical use of AI technologies in healthcare. Clear guidelines, standards, and regulations are needed to ensure the responsible development, deployment, and evaluation of AI-powered healthcare solutions.

Interpretability and Accountability: The "black box" nature of some AI algorithms makes it challenging to interpret their decision-making processes and hold them accountable for errors or biases. Explainable AI techniques, such as model transparency, interpretability, and post-hoc analysis, are essential for building trust and confidence in AI-driven healthcare systems.

Workforce Displacement: The automation of certain tasks and workflows by AI may lead to concerns about job displacement and changes in the roles and responsibilities of healthcare professionals. Reskilling, upskilling, and workforce development initiatives are necessary to prepare healthcare workers for the evolving demands of AI-driven healthcare.

FUTURE DIRECTIONS AND IMPLICATIONS

As AI continues to advance, its role in healthcare is poised to expand, offering unprecedented opportunities to improve patient care, enhance clinical outcomes, and transform healthcare delivery models. Future research should focus on addressing the challenges and ethical considerations associated with AI in

healthcare, including bias mitigation, privacy protection, and regulatory compliance.

Moreover, collaboration between healthcare stakeholders, policymakers, researchers, and technology developers is essential to harness the full potential of AI while ensuring that its benefits are equitably distributed and aligned with the principles of patient-centered care, equity, and social responsibility.

In conclusion, Artificial Intelligence is revolutionizing healthcare by enabling more accurate diagnosis, personalized treatment, and efficient delivery of care. While AI presents numerous benefits for patients, providers, and healthcare systems, it also poses challenges related to data privacy, bias, regulatory compliance, and workforce dynamics. By addressing these challenges and advancing responsible AI innovation, we can unlock the transformative potential of AI to improve health outcomes and enhance the quality, accessibility, and equity of healthcare worldwide.

References:

Esteva, A., et al. (2017). "Dermatologist-Level Classification of Skin Cancer With Deep Neural Networks." Nature, 542(7639), 115-118.

Obermeyer, Z., et al. (2019). "Dissecting Racial Bias in an Algorithm used to Manage the Health of Populations." Science, 366(6464), 447-453.

Topol, E. J. (2019). Deep Medicine: How Artificial Intelligence Can Make Healthcare Human Again. Basic Books.

Wang, F., et al. (2019). "A Survey of Deep Neural Network Architectures and their Applications." Neurocomputing, 322, 1-26.

World Health Organization. (2020). "Ethics and Governance of Artificial Intelligence for Health." Technical Report, World Health Organization.

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