



Gyan Ganga College  
of Technology

**GYAN  
GANGA**  
GROUP OF INSTITUTIONS  
Committed for Excellence



# Techfusion

Know everything around you

*Department of Computer Science and Engineering*

## Volume 1

July - Sept. 2023



## VISION OF THE INSTITUTE

- To be a centre of excellence in transformative education and research, produce excellent professionals, researchers, entrepreneurs with cutting edge technologies, values and ethics to meet the needs of the society.

## MISSION OF INSTITUTE

- To provide quality professional education using latest ICT tools and incorporating latest developments
- To create world class infrastructure that meets both curriculum and research & innovation
- To promote professional ethics, leadership skills and societal responsibilities
- To prepare students for lifelong learning to meet future challenges
- To promote interdisciplinary culture leading to world class translational research aligned with the sustainable development goals

## VISION OF THE DEPARTMENT

To impart knowledge, relevant practices in computer science and engineering and inculcating human values to transform the students as excellent professionals and potential resources to contribute to the society through advanced computing solutions.

## MISSION OF THE DEPARTMENT

- To provide strong fundamentals and technical skills in Computer Science and Engineering through advanced teaching learning methodologies.
- To transform lives of the students by nurturing ethical values, creativity and novelty to become Entrepreneurs and establish start-ups.
- To focus on sustainable solutions and improve the quality of life for the welfare of society
- To inculcate research attitude among the students and to provide opportunities to carryout inter-disciplinary research through the linkages with industry and academia.



**Dr. Rajneet Jain (Chairman)**

Our vision is to create an institution of excellence for imparting quality management education and sharing knowledge with all of you. Let it be my privilege to welcome you again to the world of accuracy. The newsletter features ingenious concepts and proficiency while also recognizing the tireless efforts of the contributors, editorial staff, and students. The readers are urged to explore the content to gain insights and motivation. I wish you success always.



**Dr. Pankaj Goyal (Executive Director)**

Recognition of personal and professional achievement is a key factor in the growth of any institution. It is heartening to know that the CSE Department of GGCT is beginning a quarterly newsletter. The newsletter is a testament to the creativity and dedication of all those involved and serves as a source of inspiration and knowledge for all readers. I would like to extend my deepest gratitude to the principal, faculties, and students involved in the launch of this quarterly Departmental newsletter. Congratulations on a job well done, and keep up the excellent work!



**Er. Apurva Singhai (Executive Director)**

The college endeavors to produce confident professionals tuned to a real-time working environment. The inauguration of the Computer Science Engineering Department's newsletter, emphasizing its backing for innovation and advancement. The newsletter showcases state-of-the-art research and recognizes the pivotal role of investments in fostering progress. I extend my heartfelt gratitude to the contributors and encourage readers to delve into the content for inspiration in their scholarly pursuits. With best wishes...



**Er. Vishesh Jain (Executive Director)**

"The true essence of accurate learning lies in the convergence of innovative thinking, accomplishments, and intellectual exploration, where a dedicated partnership between exceptional faculty and a dynamic student body strives for global excellence."



**Dr. Ajay Kumar Lala (Principal GGCT)**

It gives me immense pleasure to note that the Department of CSE, GGCT, has been publishing a quarterly newsletter, and I am sure this will provide an opportunity for the faculty and students to share their knowledge and gather information about various activities that are taking place in the department. I look forward to more activities and achievements for the department to march towards excellence in the future. I would like to thank all the teaching and supporting staff and our beloved students for their active participation in publishing this newsletter. I am very glad to congratulate the editorial team for their hard work and bringing out this edition.



**Dr. Vimmi Pandey (Head Coordinator, CSE)**

It gives me immense pleasure that the Department of Computer Science & Engineering, GGCT is publishing its first quarterly newsletter. This is going to be a platform for interactive communication amongst the students, faculties and management. This platform will provide our students and faculties to express their thoughts, creativity, achievements and knowledge. The departmental functioning and future plan of growth shall be reflected that will provide direction, guidance and encouragement to all. I wish every success to this newsletter and request all to participate whole heartedly. With Best Wishes....



**Prof. Pankaj Kumar Jain (Head Coordinator, AI & DS)**

The Department of Computer Science and Engineering, GGCT is publishing its first quarterly newsletter, which brings me utter happiness. This newsletter will facilitate interactive contact between students, faculties, and management. The newsletter will provide opportunities for faculties and students to showcase their ideas, accomplishments, original works of art, and expertise. I extend my heartfelt congratulations to the dedicated faculty and students who have contributed to this newsletter. I wish you continued success in all your endeavors.



**Prof. Pinkal Jain (Editor)**

I would like to thank the Management, Principal, and Head Coordinator CSE for their guidance, encouragement, and support. I'm also thankful to all the faculties and staff members of the Department of Computer Science and Engineering for their support and contributions. To our talented students, your enthusiasm, creativity, and hard work have made this newsletter a true reflection of our college's spirit. Your contributions have been outstanding. I'm grateful for the collaborative efforts that have made this newsletter a success, and I look forward to our continued growth and achievements. Thank you for being a part of this incredible journey.

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## Student Coordinators:

- Anisha Lamba
- Aradhya Kashiv
- Uzma Tahseen
- Ayush Kureel
- Shreyash Gupta
- Deepu Prajapati



## Student Achievements (Global Certification in Academies)



**Shreyash Gupta: 5<sup>th</sup> Sem CSE, GGCT - Juniper Network Associate**

**Rahul Mishra: 5<sup>th</sup> Sem CSE, GGCT - AWS Cloud Practitioner**

**Ratan Yadav: 5<sup>th</sup> Sem CSE, GGCT - AWS Solutions Architect Associate**

**Ayushi Jain: 5<sup>th</sup> Sem CSE, GGCT - AWS Solutions Architect Associate**







## Internal Smart India Hackathon, SIH-2023 in Gyan Ganga College of Technology, Jabalpur on 23<sup>rd</sup> Sep 2023

Our Hon'ble Prime Minister, Shri Narendra Modi, visualizes a digital India to bridge the digital divide in our country and further promote digital literacy. In order to work towards our PM's vision, the MoE Innovation Cell, the Group of Twenty (G20), the Govt. Of India, the All-India Council for Technical Education (AICTE), the Inter Institutional Inclusive Innovation Center (i4C), and Persistent Systems have jointly decided to organize the Smart India Hackathon 2023 for engineering students.

The Smart India Hackathon is a nationwide initiative to provide students with a platform to solve some of the pressing problems we face in our daily lives and thus inculcate a culture of product innovation and a mindset of problem-solving. The first five editions SIH2017, SIH2018, SIH2019, SIH2020, and SIH2022 proved to be extremely successful in promoting innovation and out-of-the-box thinking in young minds, especially engineering students from across India.

To keep this in mind, Gyan Ganga College of Technology has conducted an internal Smart India hackathon in which more than 60 teams presented their ideas under different themes like smart vehicles, smart automation, smart education, disaster management, robotics and drones, blockchain & cyber security, agriculture, food technology, rural development, renewable energy, fintech, games and toys, heritage and culture, tourism, health technology, transportation and logistics, and miscellaneous.



**Gyan Ganga College of Technology**  
Jabalpur (M.P.)  
Conducting Internal Hackathon for SIH 2023  
23<sup>rd</sup> Sept. 2023, Saturday 11:00 AM

**Internal Hackathon for both Software & Hardware edition**

<https://www.facebook.com/gyangangaofficial>  
[https://www.instagram.com/gyanganga\\_official/](https://www.instagram.com/gyanganga_official/)  
<https://twitter.com/GyanGangaGroup>  
<http://www.youtube.com/C/GyanGangaGroup>

## THE WINGS, GGCT

### Front-End Development Workshop

Our club, "THE WINGS GGCT organized an informative Front-End Workshop tailored for the second-year students enrolled in the Batch of 2022-2026. This workshop spanned a duration from August 24, 2023, to September 9, 2023, offering an extensive learning experience. A notable participation of 40 students marked the event, indicating a strong interest in enhancing their knowledge and skills in the field of front-end development. Throughout the workshop, students likely delved into a range of topics related to front-end technologies, equipping them with valuable insights and practical experience in this domain to further their academic and professional growth.



### C Training

Our club, "THE WINGS GGCT," undertook the organization of a comprehensive two-week training session that spanned from August 24, 2023, to September 9, 2023. The primary objective of this training program was to provide students with a strong foundation in the fundamentals of the C programming language. Remarkably, a substantial group of 80 students actively participated in this training initiative, reflecting their significant interest and commitment to enhancing their programming skills. The program likely covered key concepts and practical applications of C, equipping the students with valuable knowledge for their academic and professional growth.



### AWS TRAINING

"The WINGS" conducted a 30-hour AWS training program, which was attended by 20 students from both the 5th and 3rd semesters. The program focused on equipping students with the knowledge and skills needed to excel in the AWS exam and laid out a clear roadmap for those aspiring to become Cloud Engineers. This training initiative occurred from September 25th to October 17th, with a total of 20 students registered for the program.



### Expert Talk 1

Two expert talks were conducted on Engineer's day featuring the following speakers:

- 1. Professor Sardul Singh Sandhu**, Director of the Design Innovation Center at Rani Durgawati University, Jabalpur During his presentation, Professor Sardul Singh Sandhu placed a strong emphasis on the profound significance of Artificial Intelligence (AI) in our present-day world. He went on to provide valuable insights into cutting-edge technological advancements, shedding light on the transformative impact AI has on various industries and its potential to reshape the way we work, live, and innovate.
- 2. Dr. Ram Pathak**, A Cyber Security Expert, delivered a talk on the importance of Cyber Security in our daily lives. His talk was centered on elucidating the critical importance of Cyber Security within our day-to-day existence. He underscored the ever-increasing significance of safeguarding our digital presence and personal information, emphasizing the potential threats and vulnerabilities that individuals and organizations face in the modern interconnected world. Dr. Pathak's insights shed light on the proactive measures and awareness needed to navigate the digital landscape securely.



### Expert Talk 2

On August 17, 2023, a significant event, "EXPERT TALK 2.0," took place, facilitated through a collaborative effort with the CSI, organized by our esteemed club, "THE WINGS GGCT." This seminar hosted accomplished guest speakers, including Rashmi Chaturvedi (Batch 2021), who currently holds the position of Consulting Engineer II at CISCO, and Aayushi Namdeo (Batch 2021), serving as SDE-I at AMAZON. The speakers engaged the audience with motivational and insightful guidance, providing students with a wealth of information and inspiration to navigate careers in both technical and non-technical domains. Notably, the event attracted an impressive turnout, with over 150 students in attendance, underlining its significance and impact.



### Expert Talk 3

On September 15, 2023, "THE WINGS," hosted an Expert Talk seminar. The distinguished guest for this seminar was Harshit Shrivastava (Batch 2015), currently serving as the Lead Solution Architect for the Capital Markets Pre-sales division at Quinnox Consultancy Services. During the seminar, he provided valuable guidance to students, offering insights into various major fields they should consider exploring, whether it be in the realms of technology, business, trading, and more. The seminar drew an impressive audience, with over 100 students in attendance.





## STUDENT INDUCTION PROGRAMME 2023

The Gyan Ganga Group of Institutions organized a Student Induction Program on both September 6th and 8th, during which our club, "THE WINGS," had the privilege to deliver presentations. These presentations were given by the following students:

- Ashmita Shrivastava (7th sem.)
- Devansh Shrivastava (5th sem.)
- Varis Rajak (7th sem.)

The primary objective of these presentations was to introduce our club to the first-year students of GGCT and GGITS. It provided an opportunity for them to learn about the club's activities, goals, and how they could get involved.



## WORLD TOURISM DAY

On September 30, 2023, the Gyan Ganga Group of Institutions marked the occasion of World Tourism Day with enthusiasm. The Department of Computer Science and Engineering (CSE), GGCT, took the initiative to spotlight the culture and attractions of Indonesia as the central theme of the celebration. As a part of this event, every student at GGCT adorned themselves in Indonesian attire, effectively immersing themselves in the theme and bringing Indonesia to life on the campus. This collective effort resulted in a vibrant and engaging celebration that not only showcased Indonesia's cultural richness but also fostered cultural appreciation among the students.



## Establishment of IIC

IIC stands for "Institution's Innovation Council." It is a program initiated by the Government of India's Ministry of Education to encourage and support innovation and entrepreneurship in educational institutions, primarily colleges and universities. The purpose of establishing an IIC is to create a culture of innovation and entrepreneurship among students, faculty, and staff. The key objectives of an IIC include promoting innovative thinking, providing a platform for nurturing new ideas, and facilitating the development of innovative projects and startups. These councils also help institutions network with various stakeholders, such as industry, entrepreneurs, and investors, to bring innovation to the forefront and support its growth.



जबलपुर, याभारत। इंदियन इन्वोल्वेड कौन्सिल (आईआईसी) को बैकटिफिक 08/09/2023 को ज्ञान गंगा कौन्सिल अउर डेवेलपमेन्ट, जबलपुर मे प्रमुख कदम के रूप मे श्री अशोक रंजन कुमार, इन्वोल्वेड अडिटर सह आईआईसी केनल को आइडिएट, विश्व पर्यटन इन्वोल्वेड मेन, भारत सरकार को मेमर डेवेलपमेन्ट के सह समन्वयक अशोक को र्वा। उन्हे कहा कि आईआईसी, छात्रो को नए विचारो के साथ अने और अपन खुद का व्यवसाय शुरू करने मे मदद करने के लिए खुदो मददगार है। मन्त्रालय के आईआईसी सदस्य इमतिा धी मददगार है क्योकि वे छात्रो को मार्गदर्शन कर सकते है। संभव सदस्यो के पास अच्छे परामर्श कोता होते चाहे। उन्हे ज्ञान गंगा मे बातचीत के साथ आईआईसी सदस्य छात्रो को अने विचारो का सम करे अने उन्हे प्रोत्साहन दे। आईआईसी के स्केलक डे. लंबे अराले छात्रो नवचार और उद्योग को बखव देने के लिए लिखे एक वर्ष मे संभव मे अर्थात विभिन्न विनियमो और कार्यक्रमो के को मे सल्लाह दिउं प्रस्तुत को। आईआईसी को वेबसाइट को जगस्य डे. लिम्बे पाठन मे उपलब्ध ज्ञान किया। बैकटिफिक का आशोक रंजन कुमार के प्रमुख डे. अवन अशोक रंजन कुमार का सहायक विवर अने डे. अवन कुमार तारा, अन्वय आईआईसी और प्रमुख मेमबर्, वेन. डे. प्रकाश कोष, डे. अने सिंघ के. डे. अने सिंघ ने विभाग के छात्रो और संभार सदस्यो को उपस्थितो के को के समो सदस्यो का सहायता र।



## NSCC, GGCT

The NSCC conducted expert talk session featured renowned public speaker Yash Awidra, an SDE at Mercedes Benz on 30th Sept 2023. This event drew an audience of 120 students and centered around discussions on career development, placements, and brand building, providing valuable insights for aspiring professionals.



## ENGINEER'S DAY

On September 22, 2023, the Computer Science and Engineering (CSE) Department at GGCT celebrated Engineer's Day in collaboration with the Madhya Pradesh Council of Science & Technology (MPCST). This special event was dedicated to honouring engineers and their contributions. It likely included activities such as talks, workshops, or presentations to recognize the importance of engineering in various fields. The collaboration with MPCST could have added an extra layer of expertise and insight to the celebration, making it a valuable and educational experience for the students and attendees.



collaboration with MPCST could have added an extra layer of expertise and insight to the celebration, making it a valuable and educational experience for the students and attendees.



### IIC6.0\_GGCT IIC Members Meet with Abhishek Ranjan Sir



### Poster Making Competition (centered around AI):

The NSCC conducted the poster making competition on 22<sup>nd</sup> September. There were around 35 participants who presented their handmade posters, 3 winners were selected by judges.



### Cultural Activities



### International Conference & Exhibition for Women Entrepreneurism Entitled "Business Beyond Border" held on 25-26 Sept 2023

The female students of Gyan Ganga College of Technology were thrilled to participate in the "Business Beyond Borders" International Business Meet for Women Entrepreneurs. The event provided a unique opportunity for the students to learn from successful women entrepreneurs from around the world. The students were particularly impressed by the panel discussions which featured prominent women entrepreneurs from Australia, Barbados, Uganda, Tanzania, and India. The panelists shared valuable insights into expanding businesses across borders, including tips on identifying new markets, building relationships with foreign customers, and navigating different cultural norms. The event was a huge success and left the students feeling inspired and motivated to pursue their own entrepreneurial endeavors. Dr. Vimmi Pandey attended this conference.

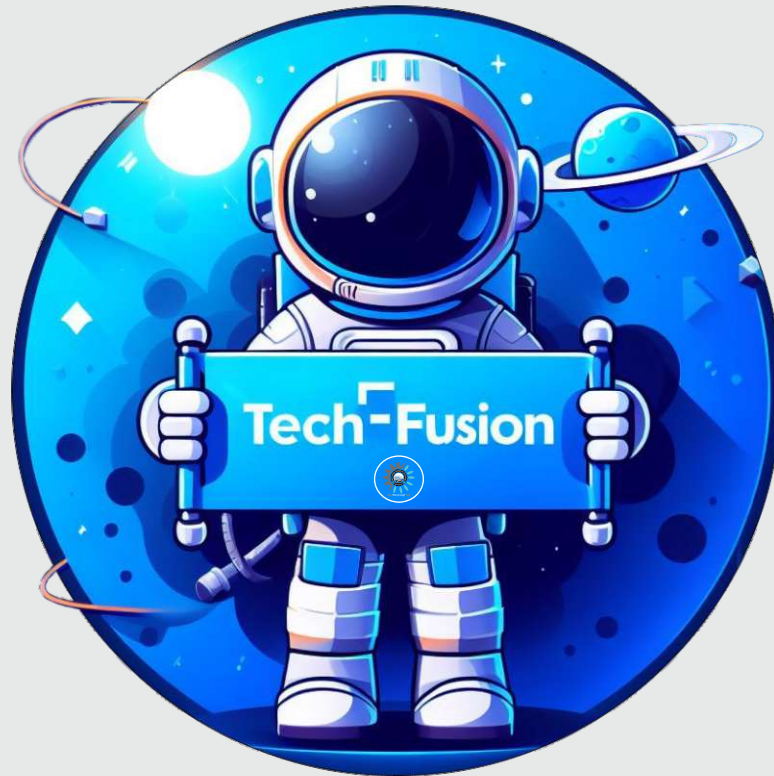




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