GURU NANAK DEV ENGINEERING COLLEGE BIDAR

ANNUAL REPORT

2021-22

ABOUT THE COLLEGE

Guru Nanak Dev Engineering College, Bidar, a premier centre of Technical Education, was established in August, 1980 by the Prabandhak Committee, Gurudwara Sri Nanak Jhira Saheb, Bidar as per the Govt. of Karnataka Order No.ED 150 TEC 79, dated 8th August, 1980. The college started with an annual intake of 120 students, in three disciplines viz. Civil, Mechanical and Electrical and Electronics. At present College is being managed by Sri Nanak Jhira Saheb Foundation (Trust). Initially, the College was affiliated to Gulbarga University, Gulbarga. However, subsequently a separate Technical University Viz. Visvesvaraya Technological University, Belagavi, has been established during the academic year 1998-99, since then this College has been affiliated to the said University. GNDEC is approved by All India Council for Technical Education (AICTE), New Delhi and is Accredited thrice by National Board of Accreditation (N.B.A.), New Delhi during the year 2005, 2009 & 2022(4 UG Programs: B.E in CSE,ECE,EEE & CIVIL).

The meticulous planning and foresight of the management has ensured that every facility is provided to the students. Sophisticated and modern equipment are added to facilitate Research and Development work. The college has state of art facilities like digital classrooms, laboratories fully equipped with state of art equipment, computer centre, central library and digital library. The excellent facilities and infrastructure in the form of Administrative Building, Auditorium is available. The campus has optical Fiber Network and wi-fi facility. The consistent high quality performance of its alumni has given the college an edge over other institutions thereby earning a reputation for honesty, integrity and innovative education

GNDEC has a vibrant student life. The college has a number of student clubs and societies, including the IEEE, ACM and ISTE student chapter etc. Through which students take part in co-curricular activities for showcasing their talent The College also hosts number of cultural and sports events throughout the year. Presently GNDEC offers under graduate and post graduate programs as Departments

- Civil Engineering
- Computer Science Engineering
- Artificial Intelligence and Machine Learning
- Electrical and Electronics Engineering
- Electronics and Communication Engineering
- Information Science and Engineering
- Mechanical Engineering
- Master of Business Administration
- Master of Technology in CSE and ECE.

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AICTE STUDENT INDUCTION PROGRAMME

The Student Induction Programme 2021-22 Phase from 13/12/2021 to 23/12/2021 for duration of 10 daysis designed to orient First Year students about the institute, and departmental activities, Institute Orientation, students were familiarized about facilities and infrastructure of their core department, student interaction,Proficiency Module, student centric teaching learning process, evaluation & assessment system, course objective, course outcome, learning objective and learning outcome, Universal Human values (Value Education & Professional Ethics), Literary(Debate/Public speaking),Creative Arts, Physical Health and related activities (Yoga &fitness). The Student Induction Programme has also given health tips, familiarization of various facilities in the campus, exposure to various clubs, curricular and co-curricular activities to students. More than 450 students participated very actively in the Students Induction Program.

Inauguration of Induction Program

The schedule of Students Induction Programme and its objective as well as the outcome are given in the following tables.

Conduction of Event:

Student Induction Programme was conducted under the guidance of Dr. Sindhu S, HOD of Applied Sciences & Humanities and Dr. Raghunandan Kumar

Learning:

- Student Induction Programme in the form of module was delivered by all HODs and faculty members.
- Student Induction Programme for the student is the learning to get acquainted with the semester pattern which was different than the annual pattern.
- Student Induction Programme facilitates interaction between teachers and students before the commencement of the regular classes. This interaction & planning helps in effective delivery of lectures and tutorial/practical.
- Physical Health and related activities for the students was conducted to make the student aware about fitness and exercise benefits.
- Student Induction Programme for the student is the new learning to get acquainted real meaning of Success, how to tackle unplanned situations and tragedies of life and the implementation of Intrinsic Approach and Extrinsic Approach to achieve the destination by the Lecture of Eminent Faculty, Prof. Madhav Nirgude, Dr. Anoop Elia, Dr. Nagraj R G, Dr. Veerendra D, Prof. Gururaj S, Prof. K K Prasad, Dr. Kishan Singh, Prof. Shravan and Dr. Neelshetty K

- Universal Human Values was conducted for all classes by speakers were Dr. Dhananjay M, Prof .Madhav Nirgude, they emphasized the importance of Family in the life, the difference between Body and Self, difference between happiness and Prosperity, importance of Right understanding and Right Feeling to achieve Happiness, importance of right way to interact with other human beings. They further discussed about understanding Harmony and living together in Harmony.
- Library Orientation Session was for all the branches conducted by the Librarian Mr. Basavaraj. During this session, he elaborated the Library facilities provided for the students, Access to Digital Library and general rules and regulations the students should follow.
- The Activities such as Universal Human values (Value Education & Professional Ethics), Literary (Debate/Public speaking), Creative Arts helped to improve the mental attitude, confidence, coordination & rapport among the students.
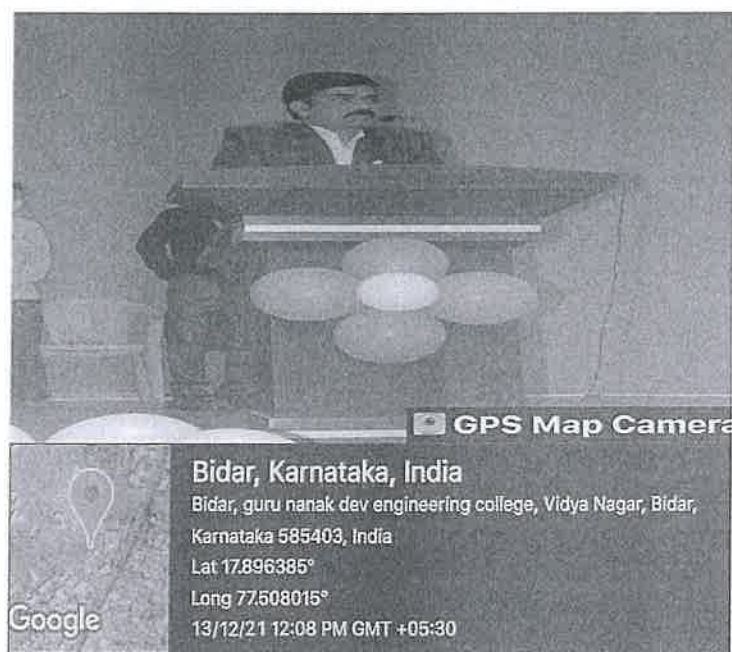
Outcomes:

- The modules taken in the Student Induction Programme were handled by all the faculty members. This gives the students familiarity with the faculty.
- The subject was distributed in two categories: Theory and Practical/Tutorial for better assimilation of the information.
- Expectation from students in terms of attendance, exam oriented, training and placement information, disciplines laid in the first week itself.
- Students have a complete understanding of the course structure: credits, assessment, and evaluation mechanism.
- Students are guided for the preparation of a study plan for semester I and II and implementation of the same.
- As per the orientation programme guidelines given by AICTE in model syllabus we have implemented some of the module like Universal Human Values-I which will be new learning for students as well as faculty members.
- Students are also made aware of various co-curricular, extra-curricular, Universal human values (Value Education & Professional Ethics), Literacy (Debate/Public speaking), Creative Arts, Physical Activity, professional bodies, and student forum through Portfolio building, which encouraged them to participate for overall development.

Student & Staff present in the event

Bidar, Karnataka, India
Bidar, guru nanak dev engineering college, Vidya Nagar, Bidar,
Karnataka 585403, India
Lat 17.896385°
Long 77.508015°
13/12/21 12:08 PM GMT +05:30

Principal Address

ACADEMICS ACTIVITIES

Introduction

The academic year 2021-22 proved to be a remarkable year for Guru Nanak Dev Engineering College, Bidar. The college witnessed significant accomplishments in both academic and extracurricular endeavours, maintaining its reputation for providing quality education.

Academic Highlights

Outstanding Pass Percentage: The College achieved a commendable 96% pass percentage in the BE final year examinations, reflecting the dedication and hard work of both students and faculty.

Scholarships and Prizes: Several students were recognized and awarded with scholarships and prizes for their exceptional academic achievements.

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Distribution of Awards and Prizes to Toppers of Academic Performances during 2021-22

Gold medal secured by Mohammad Ziya Ul Hassan CE student during the 22ⁿᵈ Annual Convocation of VTU by the Hon'ble Governor of Karnataka Mr. Thawar Chand Gehlot

Success in Competitions: The student teams of college showcased their skills and talents by participating in various competitions, achieving remarkable victories and bringing laurels to the institution.

Student Outcomes

The focus of GNDEC, Bidar on academic excellence and holistic development has yielded outstanding student outcomes. Graduates from the institution are highly sought-after by employers, showcasing their competence, professionalism, and technical expertise in various engineering domains.

Academic Activities

The academic year 2021-22 witnessed a range of dynamic academic activities conducted at GNDEC, Bidar. These activities played a pivotal role in facilitating student learning, skill development, and overall academic growth. Key activities included:

Lectures: Faculty members delivered regular lectures, covering a wide range of subjects, including core engineering principles, mathematics, and scientific concepts. These lectures provided students with a strong foundational understanding of their respective fields.

Tutorials: To reinforce learning and promote interactive engagement, faculty-led tutorials were conducted. These sessions provided students with opportunities to clarify doubts, seek additional guidance, and engage in discussions related to the course material.

Laboratories: State-of-the-art laboratories equipped with modern equipment were utilized to provide students with practical, hands-on experiences. Under the guidance of faculty members,

students conducted experiments, honed their technical skills, and gained practical insights into real-world applications of engineering principles.

Projects: Students were assigned projects that required them to apply their knowledge and skills to solve real-world problems. The projects offered opportunities for research, innovation, and collaborative work, fostering critical thinking, problem-solving abilities, and project management skills.

Industrial visits

Industrial visits provide students with an opportunity to observe and gain practical insights into real-world operations, processes, and technologies used in various industries. During an industrial visit, students can witness firsthand how theoretical concepts are applied in practical settings and understand the practical implications of their field of study. GNDEC Bidar organized industrial visits for its students. Overall, industrial visits contributed to experiential learning, professional development, and a deeper understanding of the industry's practices and processes.

Industrial Visit by students of GNDEC Bidar to NRSC, Hyderabad on 29-03-2022

Internships

Internships are experiential learning opportunities that allow students to gain practical work experience in a professional setting related to their field of study. Internships provide students with the chance to apply their knowledge and skills in real-world scenarios, develop industry-specific competencies, and explore their career interests. They work under the guidance of professionals, learning from their expertise and gaining insights into the industry's practices, workflows, and challenges. Internships also offer students the opportunity to build professional networks, enhance their resumes, and increase their chances of securing full-time employment upon graduation. Overall,

internships play a crucial role in bridging the gap between academic learning and practical work experience, preparing students for successful careers in their chosen fields. All final year students have undertaken internship programme for a minimum of one month.

CERTIFICATE
OF COMPLETION

This is to certify that

SHRUTI

has successfully completed

INTERNSHIP Program of ___30___ days

on _____**IOT**_____

technology offered by

Times Institute of Management & Technical Studies

certified by

AICRA - All India Council for Robotics & Automation

15th DEC 2021
Issued on:

CERTIFIED BY

Program Head

Internship Certificates (Onsite)

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Internship Certificates (Online)

Competitions: The College actively encouraged students to participate in various academic competitions. These competitions allowed students to showcase their talents, apply their knowledge, and compete with peers from other institutions, contributing to their personal and academic growth.

Innovative Teaching Techniques

During the academic year, faculty members at GNDEC, Bidar implemented several innovative teaching techniques and strategies to enhance the learning experience of students. Here are some noteworthy examples:

Flipped Classroom:

Faculty members flipped the classroom by providing pre-recorded lectures and reading materials for students to review before the class. In-class time was dedicated to interactive discussions and problem-solving activities facilitated by the faculty.

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Flipped Classroom Experience of Students

Collaborative learning:
Collaborative learning is an educational approach that encourages students to work together in groups or teams to solve problems, complete projects, or learn new concepts. It promotes active engagement, critical thinking, and the development of interpersonal skills. Faculty members play a vital role in structuring and guiding the collaborative learning process. Faculty facilitate discussions, provide guidance, and monitor group dynamics to ensure a productive and inclusive learning experience. By promoting collaboration, faculty enable students to develop important skills such as teamwork, communication, and problem-solving, preparing them for success in their academic and professional endeavours.

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Collaborative Learning

Problem-Based Learning:

Faculty members facilitated problem-based learning activities, where students tackled authentic, real-world problems related to their field of study. Students worked in teams to identify and analyze problems, conduct research, propose solutions, and present their findings. This approach encouraged critical thinking, problem-solving skills, and the application of theoretical knowledge to practical situations.

Students engaged in collaborative Problem-Based Learning.

Virtual Labs and Simulations:

Virtual labs and simulations are used to supplement traditional laboratory experiments. Students can engage in virtual experiments and simulations to practice concepts, conduct data analysis, and understand real-world applications. Virtual labs and simulations provide a safe and cost-effective environment for students to explore and experiment with various scenarios.


Virtual Lab & Simulations

Online learning to promote self learning:

Promoting self-learning among students, the college encourages students to explore Massive Open Online Courses (MOOCs), NPTEL (National Programme on Technology Enhanced Learning), and other online courses. These platforms offer a wide range of courses from leading institutions and industry experts, providing opportunities for self-paced learning and skill development. By accessing MOOCs and NPTEL courses, students can expand their knowledge beyond the curriculum, explore diverse subjects, and enhance their understanding of specific topics. More than 1250 students utilized these learning opportunity.

Workshops:

Workshops are interactive sessions designed to provide hands-on learning experiences and skill development. They are typically more practical and experiential in nature. Workshops may involve demonstrations, simulations, group activities, and problem-solving exercises. They focus on enhancing specific skills such as communication, teamwork, critical thinking, problem-solving, and technical competencies. Workshops provide students with the opportunity to actively participate, collaborate with peers, and apply their knowledge in practical scenarios. GNDEC , Bidar has conducted several hands on session to improve skills such as communication, problem-solving, teamwork, and critical thinking.
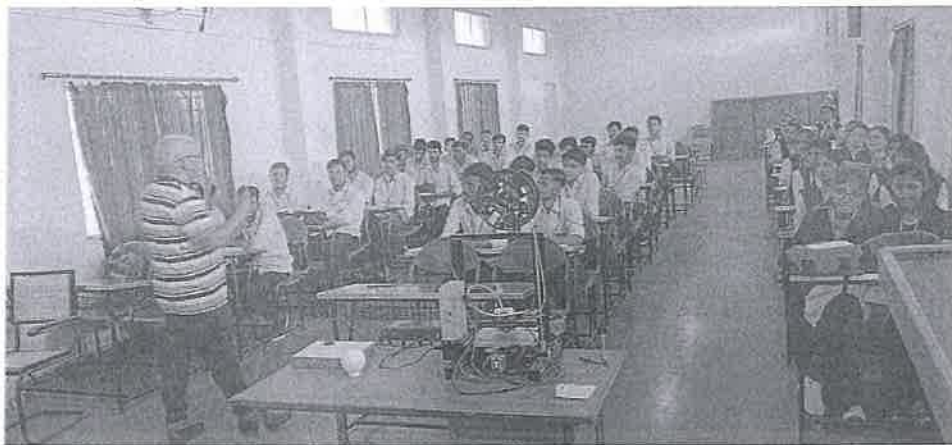
Workshop on 3D Printing by Er. Vijay Kumar for hands on experience

The academic activities conducted during the 2021-22 academic year proved to be invaluable components of students' educational journeys. These activities facilitated a deep understanding of engineering principles, nurtured technical competencies, and prepared students for their future careers. The commitment of the college in providing holistic education was reflected in the comprehensive range of academic activities offered to students.

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FINAL YEAR RESULTS

B.E.

Sl.No	Code	Title	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass percentage
1.	CE	Civil Engineering	84	84	100
2.	CSE	Computer Science andEngineering	97	96	98.9
3.	EEE	Electrical and Electronics Engineering	50	47	94
4.	ECE	Electronics and CommunicationEngineering	53	49	92.4
5.	ME	Mechanical Engineering	55	50	90.9
6	ISE	Information Science & Engineering	15	15	100

M.Tech

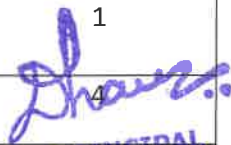| Sl.No	Code	Title	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass percentage
1.	CSE	Computer Science andEngineering	16	16	100
2.	LDN	Digitl Communication & Networking	5	5	100
3.	MBA	Master of Business Administration	45	42	93.33

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PLACEMENTS AT GNDECB

Guru Nanak Dev Engineering College (GNDEC) Bidar has an active placement cell for guiding students for their placements, higher studies etc. The training and placement cell organizes pre placement training to all the students so that they can face the interviews with confidence. Due to the constant efforts of T& P cell our students are placed in various reputed industries from all domains. The T& P cell regularly invites industry experts to guide the students about the requirements of industry and preparing for the same. The top recruiters at GNDEC include Infosys, Wipro, TCS, Tech Mahindra, L&T, and HCL. Other recruiters include Bosch, etc. Total 274 students were placed and the highest package of Rs. 10 Lakh was offered by Byjus. The details of placement during 2021-22 are as under.

Name of the Company	No of selected students
TCS NINJA	13
WIPRO	19
ROBOSOFT	1
IBM	1
HUDI INDIA PVT. LTD.	1
INFOSYS	2
VIVACE INFOTECH	7
TVS	10
CORPHIKE	10
DHANUSHREE CONSTRUCTION	4
HCL	2
MINDTREE	2
VISTEX	3
Grotoy Smart Farms Pvt. Ltd	1
SAWO	1
CODITAS	1
CAMPGEMINI	2
IDOOW	2
Bristlecone	1

Tata Elxsi	4
Ernst and Young	3
Amdocs	2
Skolar	2
Byjus	1
INFOSYS	18
Quest Global	2
Verzeo	23
Hexaware	3
Bajaj Electrical	1
Kaha Technologies	2
Delloite	1
Zensar Technologies	2
Tayana Sofware Solution	1
Computacenter	1
HCL	3
Technologies Global	2
Iopex	2
ATOS SYNTEL	1
PENTAGON SPACE	4
Qspider	7
BRIGROSHA	2
Intellipaat	4
TURNING MINDS	1
M&M	6
Bosch	1
Jayaswal Neco	4
UPSKILLZ	22
ELCAMINO SOFTWARE	5

GYANSYS	1
TAP ACADEMY	1
ACCORD SOFTWARES	2
Seventh Sense Solutions	3
TECHDENALI	9
TANTRAGYAN SOLUTIONS	1
APLS	1
AMNET DIGITAL	2
HOPSTACH	1
TECH MAHINDRA	3
SIEMENS	1
MEDINI	1
ALIENS GROUPS HYD	5
HIGHTECH BUILDING	1
HATKAR CONSTRUCTION	1
NEO CITY BUILDERS	1
DIXIT CONSTRUCTION	2
AMIT CONSTRUCTIONS	1
J M CONSTRUCTION	2
SAMARTH	2

CENTRAL LIBRARY

The Central Library of Guru Nanak Dev Engineering College supports the main objective of the institute to become a world class institution in Engineering and Management studies. The Central Library has a rich collection of books about 52856 volumes and 13902 Titles and 100 National and International Journals subscription on Electrical Engineering, Electronics and Communication Engineering, Computer Science, Information Science, AIML, Data Science, Cyber Security, Mechanical Engineering, Civil Engineering, Physics, Mathematics, Chemistry and Management studies. The collection includes reference books, text books, CDs, Back Volumes, etc. We are constantly in a process of increasing our collection of books further. Guru Nanak Dev Engineering College Central Library has also started subscribing to research journals in electronic as well as printed formats. E-Books and E-journals available with various reputed online scientific databases such as IEEE (POP), NDL (National Digital Library), Emerald, Springer Link, Taylor & Francis and Proquest, Tata McGrahill, New Age Publications, Mint Books, and DrillBit Plagiarism Check Software can be accessed under VTU-Consortium. Library Services are Borrowing and Circulation, Reference Service, Photocopying & Printing, Browsing Internet, accessing e-Journals, VTU e-Learning Room, SWAYAM/NPTL TV Channels Room, Discussion Room, OPAC Search by KOHA Software, Current Journals, Book Bank for SC/ST, DrillBit Plagiarism Check Software and Inter Library Loan facility by DELNET.

Welcome to the Library and Information Centre of Guru Nanak Dev Engineering College Bidar. Libraries are backbone of any civilized society and heart of any academic institutions. Thus the library at Guru Nanak Dev Engineering College also acquires a prominent place among the students and faculty. Our library has a very rich collection of relevant books, e-books and journals, e-journals.

Library and Information Centre provides students, staff and faculty members for updating their knowledge and supporting the research and teaching / learning activities. The library is truly the intellectual hub of the campus. Our services, resources and physical spaces provide a strong foundation to support the college in achieving the highest standards in teaching, learning and research.

Our Library and Information Centre aims to offer effective services to its users to fulfil their learning needs in the field of Engineering, Science and Humanities through its user friendly facilities. The main objective of the Library and Information centre is to emerge Guru Nanak Dev Engineering College as the best Engineering College by keeping good collection of learning resources and providing finest services to faculties and students of Principal College. We, at Guru Nanak Dev Engineering College Library and Information Centre always strive to provide better services and facilities to support the College Teaching, Learning and Research

activities. Our ultimate goal is to create library services that are convenient and efficient for our students, staff and research scholars.

MAPMyAccess is a Remote Access Solution that is specifically designed to facilitate off-campus and anytime-anywhere access to digital content that is subscribed VTU Consortium for all the GNDEC Library members. Users have the privilege of accessing subscribed content from any device in a seamless manner by leveraging secured cloud hosting services.

Print Resource

1. Number of Volumes: 52856
2. Number ofTitles: 13902
3. National &International Journals: 100
4. E-Books & E-Journals:15000+

e-Resources (Accessed under VTU-Consortium)

1. Elsevier: Science direct e-Journals&e-Books
2. IEEE:Proceedings Order Plan (POP)
3. Springer Nature: e-Journals
4. Taylor and Francis : e-Journals& e-Books
5. Emerald :Management e-Journals
6. Proquest : e-Journals
7. Tata McGrahill, e-Books
8. New Age Publications, e-Books
9. Mint Bookse-Books
10. ScienceDirect eBooks
11. Packt Books
12. Mapmyaccess : Remote Access Services
13. DrillBit :Plagarism similarity check
14. Lanquill :Grammer too
15. National Digital Library, Database
16. Library Software: Koha (Version: 22.11.05.000 **Rosalie**)

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ABOUT E-BUZZ-13

Silicon Association **of** Department of Electronics and Communication Engineering of Guru Nanak dev Engineering College, Bidar has Organized Three Days National Level Techno Cultural Fest E BUZZ 13 on 24th,25th and 26th June 2022.

The Inauguration was done in Guru Nanak Bhavan of GNDEC, The Invited guest addressed the students and motivated them and highlighted the significance of Tech-Cult Fest on overall development of Students Personality. Many students Volunteered for the fest and the inaugural program was a grand opening and successful.

To have a cultural touch, Ethnic day was also celebrated during the E Buzz 13 fest and students have literally enjoyed Ethnic day as well as Entire E Buzz 13.

Total of 857 registrations were officially recorded in different 21 events of E Buzz 13.
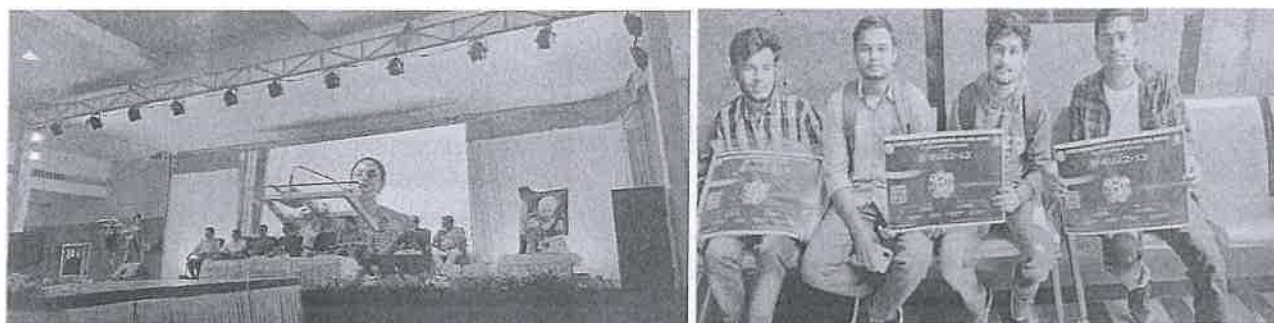
International Conference on Advances in Communication and Computing Technology (ICACCT-2021) held on 28-29, December 2021

The developments in the field of Engineering and Technology have made enormous contributions in all walks of life. The world consists of a large number of natural and man-made systems which has paved the way for innovation and creativity. The field of Electronics, Communication, and Computer science is not far behind in this race. The ever-increasing restrictions in power, space, Industrial Automation, and biomedical instrumentation is a cue to set up a new era in which communication tools, Control system algorithms, and Digital signal processing applications have to be embedded with VLSI techniques for attaining better results. These needs are the real inspirational force behind ICACCT-2021.

The department of E&CE of Guru Nanak Dev Engineering College, Bidar, Karnataka, India in joint collaboration with UTAR and UTP Malaysia is organizing two days International Conference on Advances in Communication and Computing Technology (ICACCT-2021) on 28-29, December 2021. We received a total of 120 full-paper submissions from different countries. We received papers from USA, Malaysia, Uttarakhand, IIT, NIT, Kerala, Andra, Maharashtra etc.

All papers were subjected to a rigorous review process. A total of 40 reviewers participated in the review and paper selection. After deliberation, 75 papers were selected based on the recommendations of the review committee.

Eminent scientists and professors have been invited to deliver plenary sessions at the conference, which will enlighten students and staff with their enormous acquaintance in the field during various sessions of the conference. The invited speakers will bring to light cutting-edge technologies in various areas so that the participants may benefit from this technical gorge. We are happy to place on record the cooperation, support and guidance received from all quarters. We would like to thank all the reviewers, authors, session chairs, and participants for their active participation in molding this conference into a rich technical forum.

GPS Map Camera

Bidar, KA, India
Guru Nanak Dev Engg. College, Bidar, 585403, KA, India
Lat 17.895517, Long 77.509338
28/12/2021 11:34 GMT +05:30
Note : Captured by GPS Map Camera

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CHAPTERS OF PROFESSIONAL BODIES

Guru Nanak Dev Engineering College Bidar (GNDECB) has chapters of the following professional bodies:

- IEEE (Institute of Electrical and Electronics Engineers)
- IETE (Institution of Electronics & Telecommunication Engineers)
- **ACM Student Chapter**
- **IEI Students Chapter**
- ISTE (Indian Society for Technical Education)

These chapters offer a variety of activities and services to students and faculty at GNDECB, including:

- Networking opportunities: Chapters provide a great way to meet other professionals in your field and build relationships. This can be helpful for finding jobs, getting career advice, and staying up-to-date on the latest trends.
- Continuing education: Chapters often offer continuing education courses and seminars that can help you stay up-to-date on the latest developments in your field. This can help you improve your skills and knowledge, which can make you more marketable to employers.
- Professional development: Chapters can also offer professional development resources, such as mentoring programs and workshops. These resources can help you develop your skills and advance your career.
- Support for students and early-career professionals: Many chapters offer special programs and events for students and early-career professionals. This can help you learn about the profession, network with other professionals, and get your foot in the door.

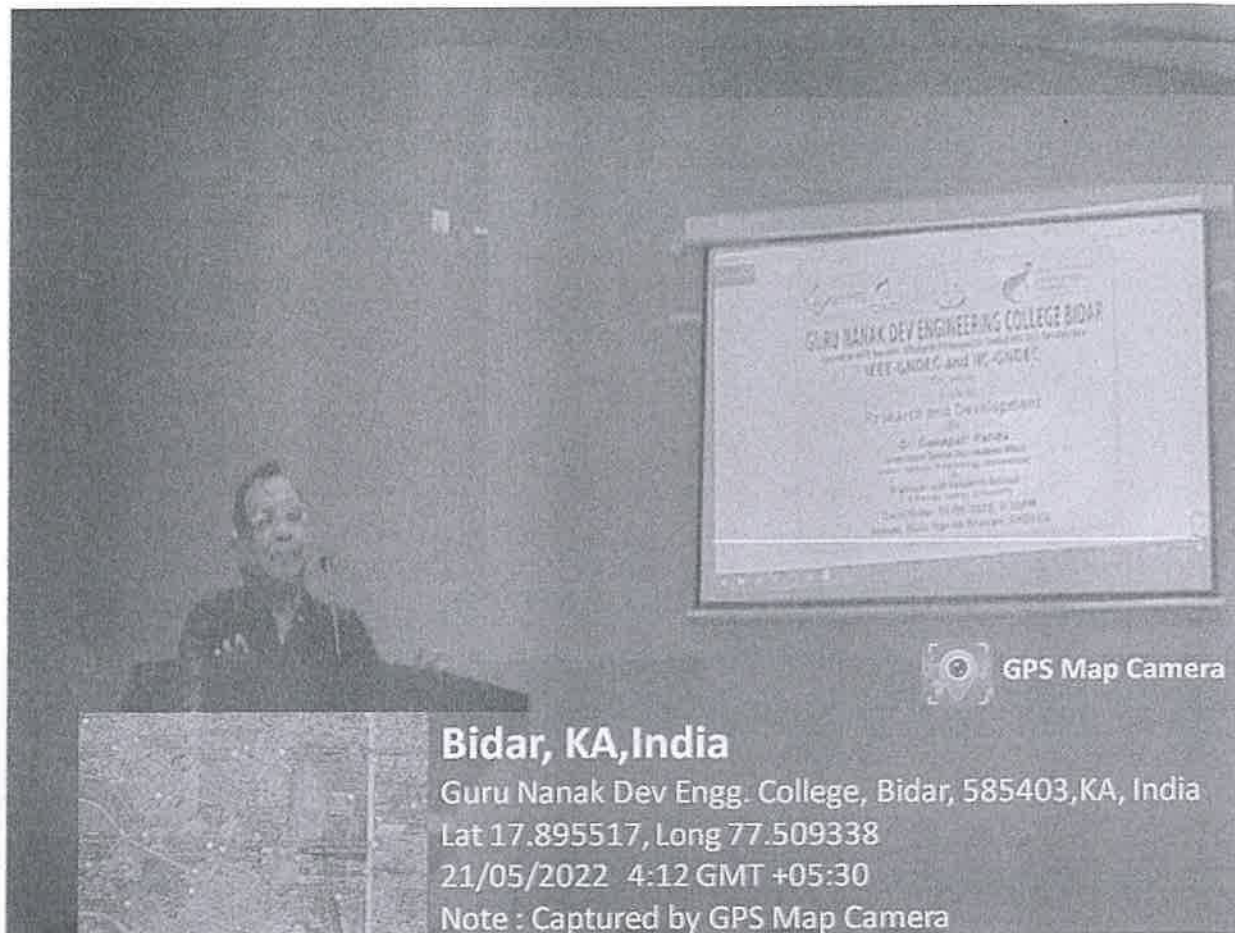## IEEE CAS Student Branch Chapter

Report on one-day expert talk on "Research and Development" on 21-05-2022

On Saturday, 21-05-2022, the IEEE-CAS Chapter and the IIC-GNDEC have jointly organized an expert talk on **"Research and Development"**. The distinguished speaker of this talk was Professor Ganapati Panda is currently working as a Professor and Research Advisor at C V Raman Global University-Odisha, Bhubaneswar, he served as the Deputy Director, Dean (Academic

Affairs), of Electrical Sciences at the Indian Institute of Technology, Bhubaneswar. A total of 91 faculty members were actively participated in this event.

Snapshot of this event is depicted below.

Bidar, KA, India
Guru Nanak Dev Engg. College, Bidar, 585403, KA, India
Lat 17.895517, Long 77.509338
21/05/2022 4:12 GMT +05:30
Note : Captured by GPS Map Camera

IEEE CAS Student Branch Chapter

Report on one-day International Webinar on One-day International webinar on *Direction-of-Arrival Estimation Based on Adaptive Filtering Algorithms* by Dr. Babur Jalal, Postdoctoral Fellow, Shenzhen University, Shenzhen, China.

On 10th May-2022, IEEE CAS Student Branch Chapter of GNDECB has conducted one-day International webinar on *Direction-of-Arrival Estimation Based on Adaptive Filtering Algorithms* by Dr. Babur Jalal, Postdoctoral Fellow, Shenzhen University, Shenzhen, China" to all the staff and students members of GNDECB. A total of 72 participants were actively participated in this event.

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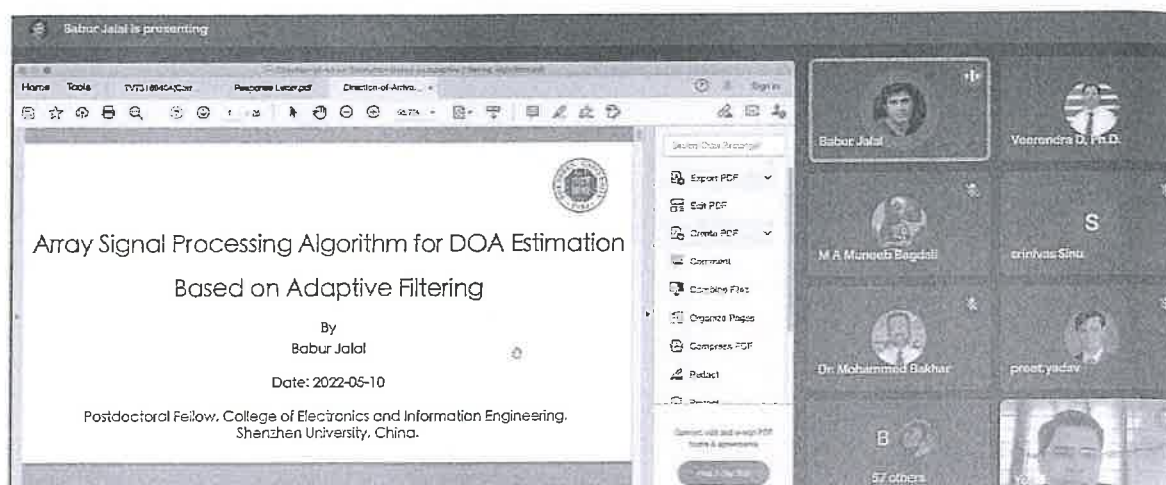
IEEE CAS and IEEE ITS Student Branch Chapters

Report on one-day Webinar on "Neurofeedback Training (NFT) and Cognitive"--- 4th March 2022

Guru Nanak Dev Engineering College Bidar in association with the IEEE North Karnataka Sub Section and the IEEE Bangalore Section, has organized a live webinar on **"Neurofeedback Training (NFT) and Cognitive"** on 4th March 2022 using Webex link

https://ieeemeetings.webex.com/ieeemeetings/j.php?MTID=m64abb14143a57f73d77f4d6cba4f680b

Friday, Mar 4, 2022 12:00 pm | 1 hour | (UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi

Meeting number: 2535 927 3537

Password: mkss2022.

The speaker of this webinar was, Dr. Humaira Nisar, Professor, Head of Master of Engineering Electronic Systems Programme, Department of Electronic Engineering, Faculty of Engineering and Green Technology, UTAR, Malaysia.

The moderator of this webinar was, Dr. Veerendra Dakulagi, Execom Member, IEEE NKSS Assco. Prof. of ECE. Dept.GNDECB, India.
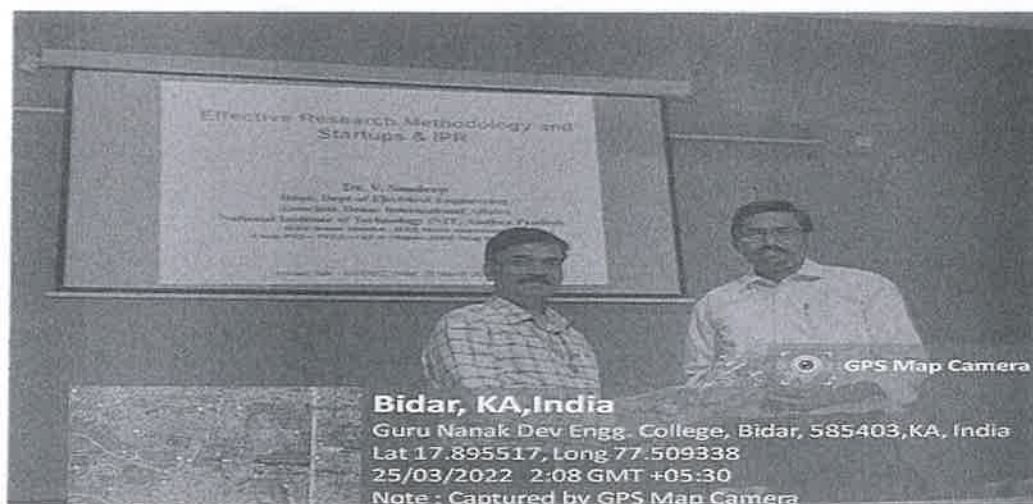
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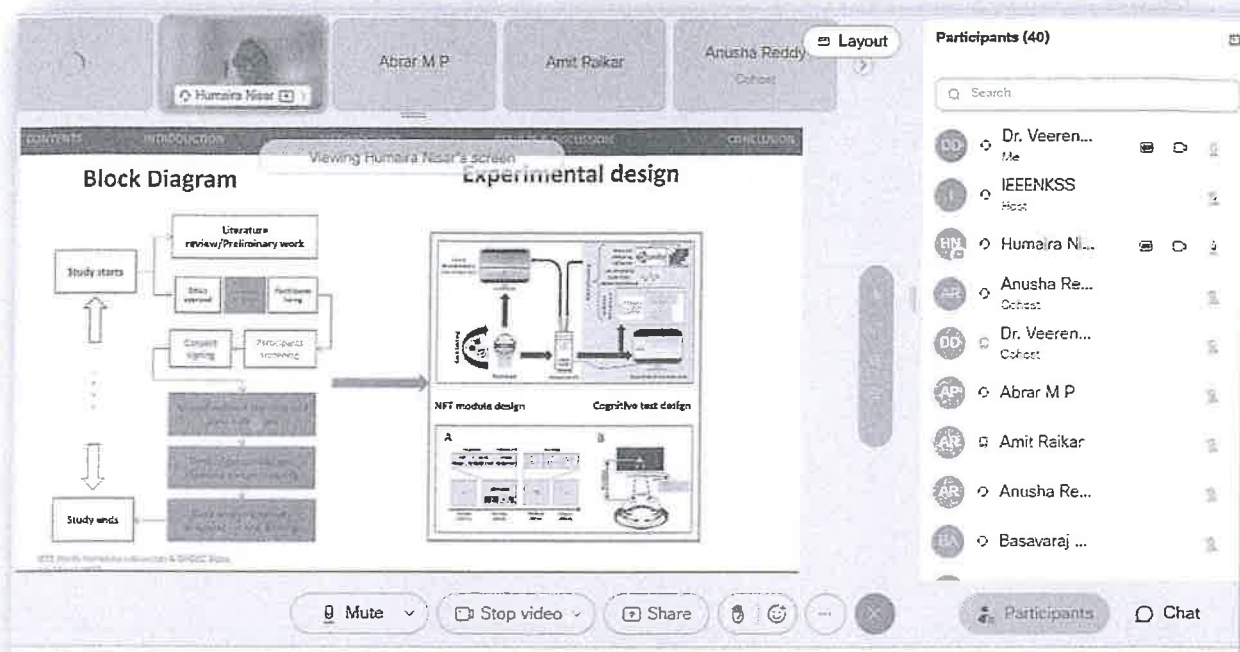
IEEE CAS Student Branch Chapter

Report on one-day expert talk on "Effective Research Methodology and Start ups & IPR" on 25-03-2022

On 25-03-2022, IEEE CAS Student Branch Chapter of GNDECB has conducted an expert talk on "Effective Research Methodology and Start ups & IPR" to all the staff and students members of GNDECB. A total of 65 participants were actively participated in this event.


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Report on one-day expert talk on "Improvement in Pulse Code Modulation" on 22-02-2022

On Tuesday, 22-02-2022, Col. Dr. B.S. Dhaliwal, Director Academics of GND Group of Institutes has conducted an expert talk on **"Performance Improvements in Pulse Code Modulation"** to all the staff members of E&CE. A total of 32 faculty members along with I/c Principal (Dr. B.B. Kori) of GNDECB, Mrs. Reshma Kaurji, VCP of GNDECB, Mrs. Jasmineeth Kaur and HODs of all departments were actively participated in this event.

Snapshots' of this event are depicted below.
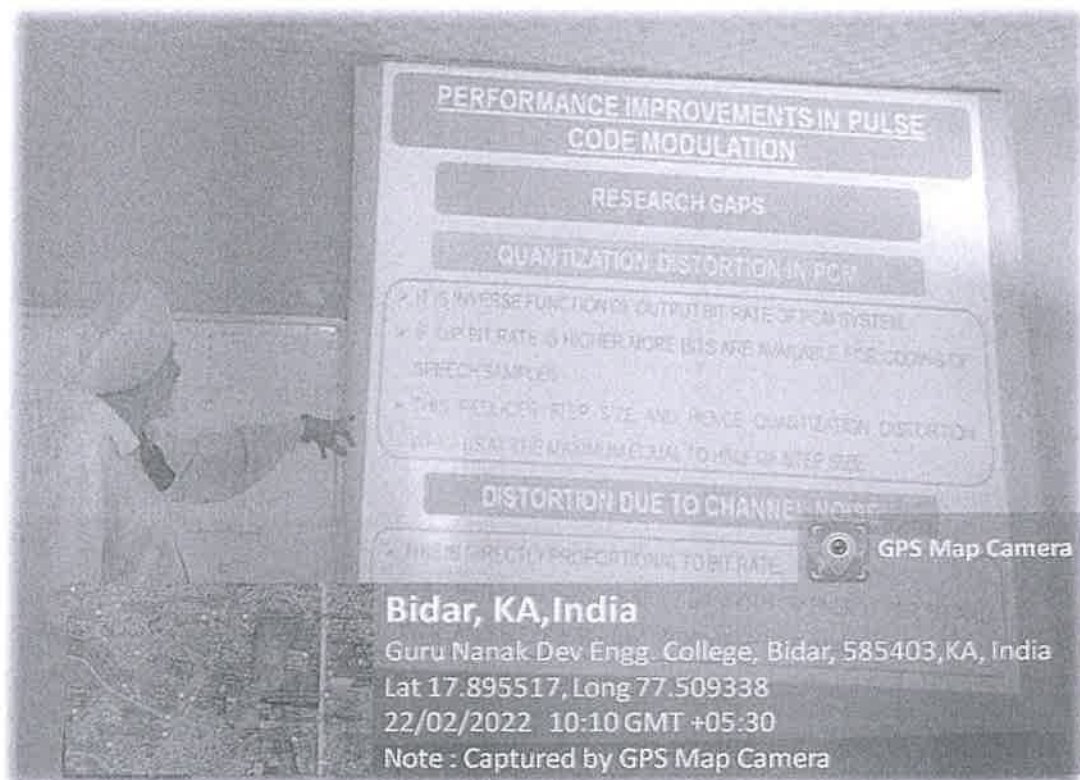
IEEE-GNDEC Student Branch

IEEE Circuits and Systems Society Student Chapter GNDECB in collaboration with ESRA VLSI Training Institute has organized one-day webinar on **"CAREER GUIDANCE IN VLSI"** on Sunday , 16th May 2021. The resource person of this webinar was Mrs. Gnana Prasuna. She is a training expert at ESRA VLSI Training institute, Bangalore. She has 5+ years of Industry experience, worked in QUALCOMM and now working as lead engineer in The vtool (UK). She has 3+ years of teaching experience in RTL DESIGN.More than 55 students have attaended this webinar using the Google meet:

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meet.google.com/cqa-mbid-qwh

ACM Student Chapter

Event :- **Etiquettes for Final Year Project**

Department of Computer Science & Engineering organized an event on **"Etiquettes for Final Year Project"** under **GNDECB ACM Student Chapter** on 20/10/22 at 11:00 pm. The total Participant for the event was 140 students.

ACM Student Chapter of College has organized an event on "Etiquettes for Final Year Project" on 20/10/22 in mini Auditorium. The event was chaired by Dr. Dhananjay M, Principal along with Dr.Pradeep Singa, Dean R & D GNDEC (as a resource person) and Dr. Gouri Patil, HOD CSE.

The Resource person Dr. Pradeep Singa explained

- How to prepare synopsis,
- Role of literature survey to define problem statement,
- How to find suitable methods to solve problem,
- Ethics to be followed in publication and drafting the project report.

Final Year students of CSE, EEE, ECE and ISE participated in the event and got benefited by practical approach in lab. The ACM Student chapter In -charge Prof.Masarath B, Prof. Ranganath kulkarni & other staff members also attended the session. The program was organized by ACM Student members coordinated of faculty member.

"Etiquettes for final Year Project"
GNDECB ACM STUDENT
CHAPTER

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IEI Students Chapter

THE INSTITUTION OF ENGINEERINS INDIA is professional body, which offers, Opportunity to participate in technical events e.g. Seminar, Symposia, Conventions, Workshops etc. organized by IEI State/Local Centre's.Participation in various Technical Activities of the students' chapter. Access to library facilities at State/Local Centre's of the Institution across the country.Opportunity to meet fellow engineers for professional interaction. Technical paper presentation at reginal conclave.

GURU NANAK DEV ENGINEERING COLLEGE, BIDAR
AFFILIATED TO VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
APPROVED BY AICTE NEW DELHI, ISO CERTIFIED INSTITUTE ISO 9001/2015

CELEBRATION OF WORLD ENVIRONMENT DAY 2021
BY DEPARTMENT OF CIVIL ENGINEERING
IN ASSOCIATION WITH IGBC, ACESS AND IEI

BY ORGANISING WEBINAR ON
ECOSYSTEM RESTORATION

SATURDAY 05TH JUNE 2021
AT 5 PM IST

RESOURCE PERSON
DR. B.MANOJ KUMAR
PROF & HEAD OF ENV.ENGG.DEPT
SJCE - MYSORE

E-CERTIFICATE WILL BE PROVIDED

GOOGLE MEET LINK
https://meet.google.com/tyn-xdgc-wzc

REGISTRATION LINK
https://forms.gle/3w2qwkeuxYA9R1MmG

PROF. RAJANI.S
COORDINATOR, CIVIL DEPT.

Dr. B.B.KORI
HOD CIVIL DEPT.

COL.Dr. B.S.DHALIWAL
DIRECTOR

Dr. RAVINDRA E
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CULTURAL ACTIVITIES

The college has organized Fresher's Party for the first year students, The fresher's party was organized in Guru Bhavan of the college, the invited guest for the fresher's parties were Dr. S Balbir Singh ji Chairman GNDECB and DrReshmaKaurJi Vice Chairperson GNDECB.

Many cultural events were organized for the fresher's party and students actively participated in the fresher's party and they enjoyed a lot in the party and the fresher's party was a grand success because of staff and students support

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PATRIOTIC RUN:

The college has organized patriotic run on 26th January 2022 in order to rejuvenate the feeling of patriotism in the students. The staff and students have actively participated in the event.

**AIR POLLUTION AWARNESS PROGRAM:**

The college has organized the awareness program on "Air Pollution" in the campus in collaboration with District Administration Bidar and Regional Transport Office Bidar, the program was inaugurated by the District Commissioner Bidar, Regional Transport Officer Bidar, Principal GNDEB and other invited guest

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FAREWELL PARTY:

The college has organized the fare well party to its outgoing students on 26th June 2022
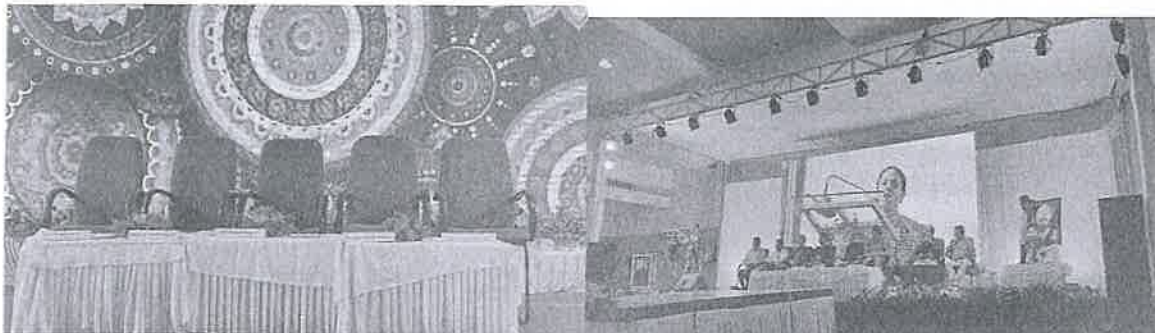
NSS ACTIVITIES

There are many activities were conducted by NSS unit in the Institution and surrounding rural areas to bring awareness about various issues. NSS volunteers along with students of various branches actively participated in the events NSS Programme officer and NSS coordinators of various departments guided the students during the execution of the activities due to this students learnt about various social issues and their Roles and responsibilities towards the society and country and many rural people got awareness about various issues built patriotism towards the Nation.
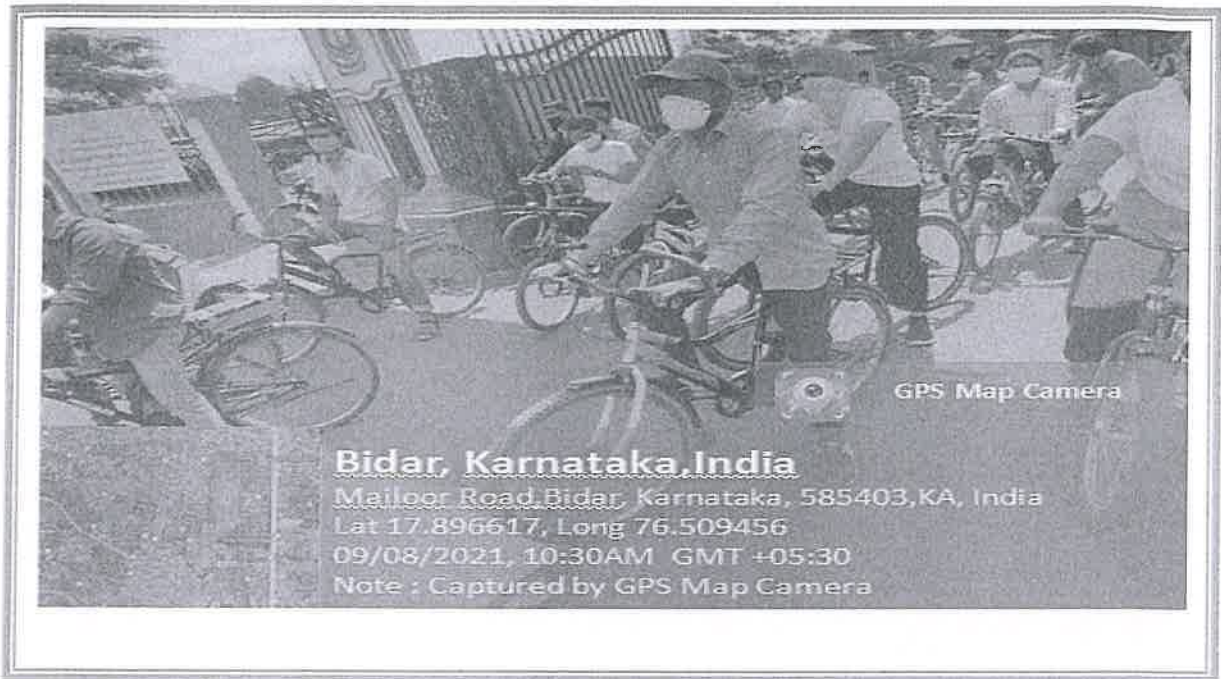
The following Activities/Events conducted by NSS

1. Bycycle Rally on the eve of Azadi ka Amrit Mahostav.
2. Patriotic Run on the eve of Azadi ka Amrit Mahostav.
3. Activity on Awareness about Digital India.
4. Helping local schools students to achieve good results and enhance their enrolment in higher education
5. Sapling plantation.
6. Food preservation and packing
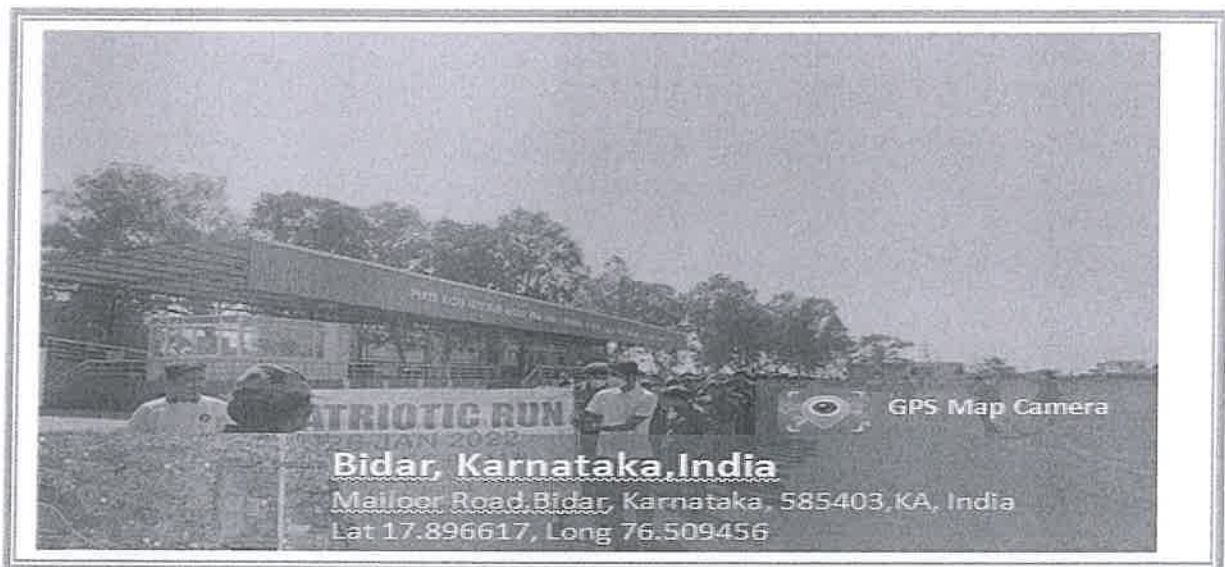7. Swatch Bharat Abhiyan.

Photo Gallery: 1

Developing Patriotism and celebrating 75th Independence day as a special event..

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Bidar, Karnataka, India
Mailoor Road, Bidar, Karnataka, 585403, KA, India
Lat 17.896617, Long 76.509456
09/08/2021, 10:30AM GMT +05:30
Note : Captured by GPS Map Camera

Developing Patriotism and celebrating 75th Independence day as a special event..

Photo Gallery: 2

Bidar, Karnataka, India
Mailoor Road, Bidar, Karnataka, 585403, KA, India
Lat 17.896617, Long 76.509456

Developing Patriotism and celebrating Republic day as a special event

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Guru Nanak Dev Engg. College, Bidar
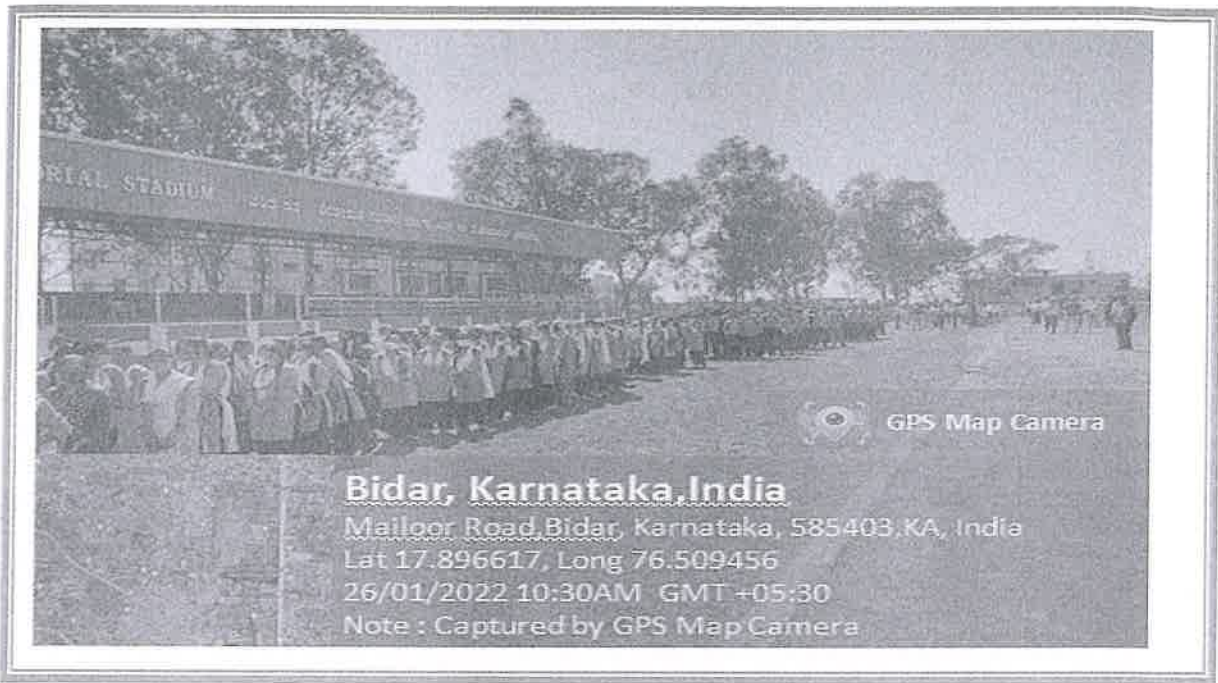
Developing Patriotism and celebrating Republic day as a special event

Photo Gallery: 3

Activity on Awareness about Digital India

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Activity on Awareness about Digital India

Photo Gallery: 4

Creating awareness of various Teaching Learning methods to achieve good results and increase in enrolment in higher, technical and vocational education people

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Gornalli (B), Karnataka, India
Gornalli (B), Bidar, Karnataka, 585403, KA, India
Lat 17.8708, Long 77.5204
18/03/2022, 03:45PM GMT +05:30
Note : Captured by GPS Map Camera

Creating awareness of various Teaching Learning methods to achieve good results and increase in enrolment in higher, technical and vocational education people

Photo Gallery: 5

Kamthana, Karnataka, India
VC5X+Q4W, Kamthana, Karnataka 585226, India
Lat 17.859386°
Long 77.447628°
06/12/21 02:00 PM GMT +05:30

Sapling plantation

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Sapling plantation

Photo Gallery: 6

Creating awareness on food preservation and packing methods

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Creating awareness on food preservation and packing methods.

Photo Gallery: 7

Creating awareness of Importance of cleanliness and hygiene in the society

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Kamthana, Karnataka, India
Kamthana, Bidar, Karnataka, 585403, KA, India
Lat 17.856061, Long 77.452295
20/01/2022 11:35AM GMT +05:30
Note : Captured by GPS Map Camera

Creating awareness of Importance of cleanliness and hygiene in the society

NCC

The National Cadet Corps came intoexistence on 16th July1948 under the NCC ActXXXVI of 1948 under the Ministry of Defense. The Motto of the NCC is '**Unity and Discipline**' which was adopted on 23rd December1957. In lining up to its motto, the NCC strives to be and is one of the greatest cohesive forces of our nation, bringing together the youth hailing from different parts of our country and molding them into united, secular and disciplined citizens of our Nation.

The aims of NCC is to develop character, commander-ship, discipline, leadership, secular outlook, spirit of adventure, sportsmanship and ideals of selfless service among the youth of the country; to create a human resource of organized, trained and motivated youth to provide leadership in all walks of life and always be available for the service of the nation; to provide a suitable environment to motivate the youth to take up a career in the Armed Forces

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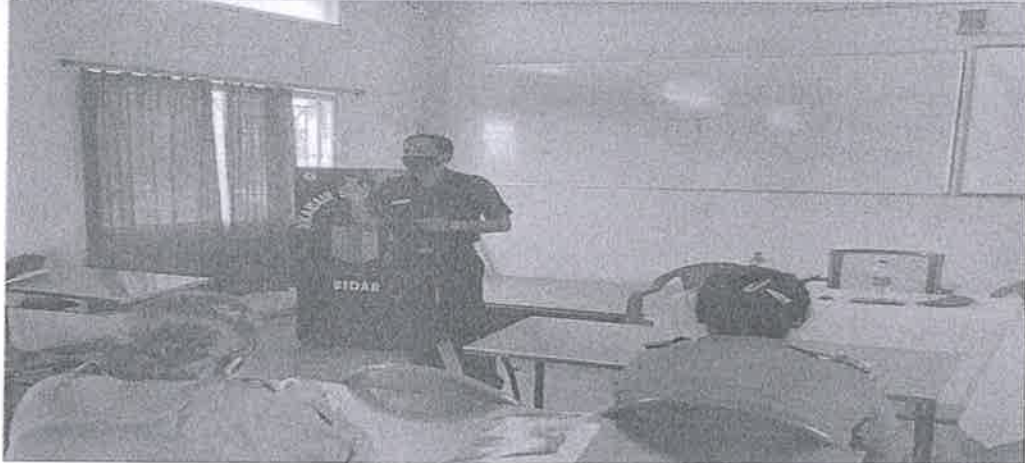Guru Nanak Dev Engg. College, Bidar

NCC in our college plays a credible role in shaping the character of students by inculcation the values of patriotism, service, discipline and hard work. Training in NCC insists qualities like nationalism, patriotism, discipline, team spirit, leadership, self-confidence and promote overall personality development. NCC gives a tremendous opportunity to one and all betterment, irrespective of caste, creed, religion and economic status. Based on the aims of NCC the organization has laid down training syllabus for cadets. The syllabus for the Senior Division Cadets covers a period of three years. Except for minor the syllabus for each division is similar for boy and girl cadets. The training year matches the academic and financial year.
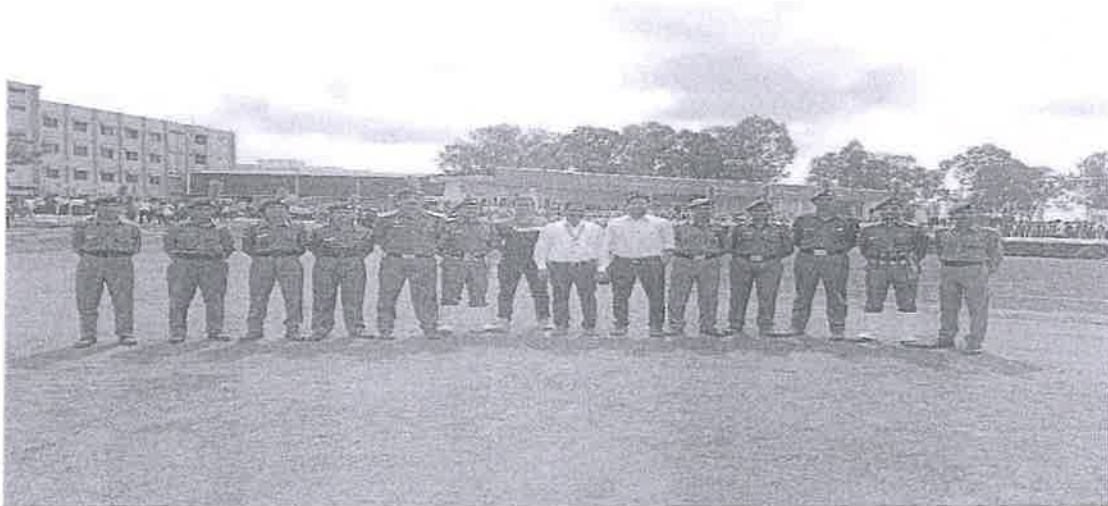
NCC Activities:

International Yoga Day Programme, Rifle Training at AIR FORCE STATION BIDAR, Republic Daycelebration in College, Independence Day celebration, Participated in the anti polio drive , Cycle Rallyexpedition as a part of Swachhta Pakhwada, Surgical Strike Day, Kargil Vijay Diwas, Fit India Movement,Swachhta Hi Seva, Freedom runs, Mega pollution awareness, VOCAL FOR LOCAL, World EnvironmentDay Celebration, One day seminar on the topic drug abuse, essay writing on Preamble of Constitution and fundamental rights and awareness of fundamental duties, College campus cleaning programme, blood donation camps, traffic control in bidat city, tree plantation, Aids awareness programs, Corona awarenessOnline.

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NEW AGE INCUBATION CENTER

Ministry of Education (MoE), Govt. of India has established 'MoE's Innovation Cell (MIC)' to systematically foster the culture of Innovation among all Higher Education Institutions (HEIs). The primary mandate of MIC is to encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into prototypes while they are informative years.

MIC has envisioned encouraging creation of 'Institution's Innovation Council (IICs) across selected HEIs. A network of IICs are established to promote innovation and entrepreneurship in the Institution through multitudinous modes leading to an innovation promotion ecosystem in the campuses.

Institution's Innovation Councils in HEIs ensure a multidisciplinary interaction and partnership approach for boosting IP generation, enhancing innovation and start-up outputs from academic institutions.

GNDEC actively worked towards implementation of the initiative. 11 Innovation ambassador are nominated to undergo training by MoE's, Conducted Hackathon SIH 2022 proposed 8 ideas, under YUKTI scheme applied 10 innovative ideas for funding and under KAPILA scheme 9 patents were applied for funding.

Karnataka ICT Group (KIG 2020) was formed under the leadership of Mr. Mohandas Pai and Mr. B V Naidu which was charted to develop Karnataka's roadmap to undisputed global leadership in ICT by the year 2020.In the state budget 2013-14 it has been announced as follows "To encourage entrepreneurship and innovation it is proposed to establish incubation centres in ICT sector in association with selected engineering colleges at district headquarters."

Under this Scheme NAIN(New Age Innovation Network) a govt. funded DIH (District Innovation Hub) established in campus. For Batch 1 ten Innovative projects were funded. All 10 projects completed, 5 patents published and process of establishing 2 startups also started.

2nd edition organized by Karnataka Innovation and Technology Society (KITS), Department of Electronics IT, BT, S&T, StartUp Karnataka, New Age Innovation Network (NAIN) in Association with GURU NANAK DEV ENGINEERING COLLEGE BIDAR On Monday, 07 June 2021 at 9.00AM to 5.10PM, around 300 students participated in the event online.

Bengaluru Tech Summit 2021, Around 300 Students attended Asia's Largest Conclave held during 17-11-2021 to 19-11-21

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CERTIFICATE

Institution's Innovation Council (IIC) established at

Guru Nanak Dev Engineering College, BIDAR

had undertaken various activities prescribed by Innovation Cell, Ministry of Education, Govt. of India to promote Innovation and Start-up in campus during the IIC calendar year 2021-22.

Dr. Abhay Jere
Chief Innovation Officer
MOE, Innovation Cell

Mr. Dipan Sahu
Assistant Innovation Director
MOE, Innovation Cell

Guru Nanak Dev Engineering College Bidar

SMART GNDEC HACKATHON 2022

5 SELECTED IDEAS WILL HAVE CHANCE
TO PARTICIPATE IN NATIONAL EVENT
No. of problems: 524
Prize Money/Problem: 1 Lac
Seed Fund/Problem: 10 Lac

SMART INDIA HACKATHON 2022

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.

E-STEP BOOTCAMP

Karnataka Innovation and Technology Society
Department of Electronics Information Technology
Biotechnology and Science & Technology

The best way to predict the future is to create it
Your First Step Towards Entrepreneurship

Monday, 07 June 2021
9:00 AM to 5:10 PM

Organized by

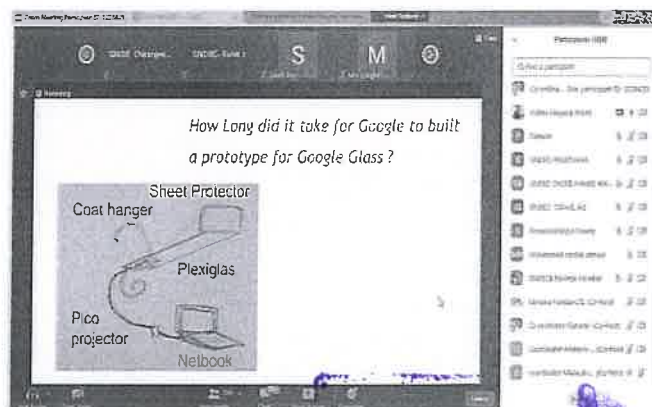STARTUP KARNATAKA

GURU NANAK DEV
ENGINEERING COLLEGE
BIDAR

Dr. Sardar Balbir Singh Ji
Chairman, GNDECB

Mrs. Reshma Kaur Ji
Vice Chairperson, GNDECB

Mr. Mahesh H
NAIN DIA

Prof. Gururaj S
NAIN CC

Dr. Ravindra E
Principal

How Long did it take for Google to built a prototype for Google Glass?

Sheet Protector
Coat hanger
Plexiglas
Pico projector
Netbook

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GURU NANAK DEV ENGINEERING COLLEGEBIDAR
Approved by AICTE New Delhi , Affiliated to VTUBelagavi,ISO Certified 9001-2015,
Karnataka India

NEW AGE INNOVATION NETWORK (NAIN)
(An initiative of Karnataka Innovation and Technology Society [KITS])
Department of IT, BT, Science and Technology. Govt. of Karnataka

NAIN BATCH – I [2019-2021]
List of Projects Published in Official Journal of Patent Office

SLNO	PROJECT TITLE	PATENT APPLICATION NUMBER
1	ELECTRIC MOTOR-POWERED MULTIGRAIN CUTTER	202241026560A
2	ROBUST CROP YEILD ENHANCING TECHNOLOGY	202241026564A
3	LAMANI LANGUAGE SYNTHESIZER	202241026561A
4	ROBUST SEWAGE WATER TREATMENT SYSTEM FOR HOMES	202241026553A
5	A SYSTEM FOR PREVENTION OF WATER WASTAGE	202241026550A

Visit site: https://gndecb.ac.in/incubation.html

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ALUMNI AFFAIRS CELL

The Alumni Affairs Cell of Guru Nanak Dev Engineering College (GNDEC) Bidar was established with the objective of maintaining and strengthening the bond between the college and its alumni. The cell organizes a variety of events and activities to promote alumni engagement, including:

- Alumni Meet: The alumni meet is held every year to provide a platform for alumni to meet, greet, and network with each other. The meet also features guest speakers, panel discussions, and other activities.

- Alumni Newsletter: The alumni newsletter is published twice a year to keep alumni informed about the activities of the college and the alumni cell. The newsletter also features articles written by alumni.

- Alumni Portal: The alumni portal is a website that provides alumni with a platform to connect with each other, stay updated about the college, and find career opportunities.

- Alumni Mentorship Program: The alumni mentorship program matches alumni with current students to provide guidance and support.

- The Alumni Affairs Cell of GNDEC plays an important role in connecting alumni with the college and each other. The cell's activities help to strengthen the bond between the college and its alumni, and they also provide opportunities for alumni to give back to the college.

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CONCLUSION

In conclusion, the year 2021-2022 was a successful year for Guru Nanak Dev Engineering College (GNDEC) Bidar. The college achieved many milestones, including:

- A strong academic performance
- A high placement rate,
- A vibrant student life, with a variety of clubs and activities.
- A strong alumni network

The college is committed to providing its students with the best possible education and experience. The college will continue to strive for excellence in all areas, and it is confident that the future is bright for GNDEC.

I would like to thank all of the faculty, staff, students, and alumni for their contributions to the success of the college. I am proud to be the principal of GNDEC, and I look forward to the future.

Principal's Signature

Name: Dr. Dhananjay J

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