# SONIC VIEW Magazine 2022



# BHAI GURDAS INSTITUTE OF ENGINEERING AND TECHNOLOGY SANGRUR

### **ABOUT BGIET**



Bhai Gurdas Institute of Engineering and Technology, committed to the cause of skilled and quality education at par with Global Standards, appeared on the academic front in 2002. Bhai Gurdas Group has the credit of establishing the private engineering college in Malwa region of Punjab. The Group has successfully been running seventeen institutions in various districts of Punjab. Bhai Gurdas Group has been established with the objective of providing high-quality education in Engineering, Technology, Management, and others. This is an I.K.G. Punjab Technical University, Kapurthala affiliated and AICTE approved institution. The ultimate aim of the Institution is to create a better nation by creating better citizens BGIET believes in the overall growth of its students.that they remain united with their human ways of living.

### **CHAIRMAN DESK**



BGIET is one of the foremost educational groups in North India. We deem that creating an academic foundation for societal, educational, scientific, economic and technological development in our Nation can establish into Global perspectives. We endeavour at establishing bench marks in academic excellence and holistic grooming to assist our students to meet the career challenges in the increasingly globalised economic conditions. Thus, BGIET has earned goodwill by our students and society at large.

BGIET is dedicated to foster in its students, the pursuits of individual fineness and participate in full range of scholastic, spiritual, cultural, social and physical activities, and to make them evolve as all-rounder. Education is the basis for all future possibilities in the life of a student. Also, quality education is a passport to its steep rise in life and creates practical avenues to attain financial gains. It provides golden opportunities to lead a life of decorum & affluence. To attain this objective, trainings in placement, personality development, communication skills and other soft skills are provided by expert members.

I am extremely pleased to welcome you all to being a part of our BGIET family. I pray to the Almighty to bless you with a great future. I assure you that the institute will provide you the apt launching pad to fly high motivated by great leadership and inspiring faculty me.

Our team of committed and highly qualified faculty strives to broaden the students' horizon of learning, thereby helping every student to experience success with high grades. We take exceptional care that our ideas are not merely discussed but executed. The placement scenario is also quite laudable as several premier companies visit our campus for recruitment. We never compromise on any part of our quality and our policy of providing technical education in international standards.

Dr. Guninderjit Singh Jawandha Chairman of BGIET, Sangrur

### **DIRECTOR'S DESK**



Bhai Gurdas Institute of Engineering and Technology established in the year 2002, is a leading engineering institute of Punjab and north India. We are proud that this institution has consistently maintained its tradition of excellence in the field of technical education till date. We have a mission to serve the humanity by providing quality technical education to students and transforming them into employable managers, technocrats, bureaucrats and above all good citizens of India. After years of service, we feel proud that thousands of our students have established their identity in industries, government organizations, national companies and universities in different capacities, functional areas, countries and work environments through their technical knowledge and skill that they have been infused with during their tenure in BGIET. The Institute provides competent technical manpower to the country. We believe in strong industry-institute collaboration. Hassle free information access and quality education are the key objectives set by us. Research is an integral part of formal education. In today's competitive global scenario, it is essential to inculcate research culture and habits amongst students and faculty. The faculty and students are encouraged to work on state of art research projects, carry out expert consultancy work and create wealth of knowledge by filing patents in a multidisciplinary work environment. Apart from academics other activities like sports, cultural, extracurricular and social are equally important to boost their confidence, improve communication/presentation skill, build team spirit, inculcate sportsmanship, leadership quality and decision making ability. In tune with our Institute's Vision and Mission our commitment is to develop human beings who are technologically superior having social concern.

> Dr. Tanuja Srivastava Director Bhai Gurdas Institute of Engineering & Technology

#### **APPLIED SCIENCES**

Department of Applied Science plays a vital role to shape future of Engineers because, Applied Science is a discipline of science that applies existing scientific knowledge to develop more practical applications, like technology or inventions. It enables students to think critically and practically about scientific knowledge to develop more practical applications. It also develops students' communication skills, , ethics and moral values required for their profession and society. To shape their career, department of Applied Science has highly qualified, educated and result oriented faculty. The Department takes special pride in its richly experienced and devoted galaxy of teachers who are always there to contribute their students towards excellence in all curricular and co-curricular activities.



Dr. Jitender Rattan Professor & H.O.D



Dr. Sushil Kakkar Associate Professor & H.O.D

#### **ELECTRICAL ENGINEERING**

Electrical Energy is only form of the energy which transmits over distance. Electrical Engineering is one of the oldest branch and is the base for many of technological streams. We cannot assume our life without electricity. Electrical Engineers can work with Government sectors, private companies, as consulting engineers or as entrepreneur in the field of research, design, projects, production, maintenance and testing etc. Requirement of Energy audit, renewable energy sources, smart systems, automation etc has open up new exciting careers for electrical engineers. Faculty prepare graduates as per industrial and societal needs. Graduates of the department skilled to work with latest technology including Microcontrollers, Power Electronics, Renewable, modern computer techniques etc.

To achieve this goal, the department has team of highly qualified, committed and self motivated learners who nurtures the career of young and enthusiastic students as teacher, guide and mentor. Laboratories are equipped with equipments that are in line with current industrial trends. Department constantly interacts with industry, research organizations and academia to produce globally competent and locally relevant engineering graduate. Above all, department nurtures human values, sense of responsibility and ethics for all stake holders.

#### **ELECTRONICS & COMMUNICATION ENGINEERING**

Welcome to the Department of Electronics and Communication Engineering Electronics & Communication Engineering converts the concepts of basic sciences into real time applications Electronics Engineers play pivotal roles in various necessities of today's technology based life like computer, internet, satellite, mobile phones, robotics, aerospace security systems. BGIET provides graduate and post graduate degrees in Electronics & Communication Engineering, ECE department at BGIET has well equipped Labs of Microprocessor & Micro - controller, Digital Signal Processing, Microwave, Electronics Devices, Digital Electronics, VLSI, Linear Integrated Circuits etc , and all the classrooms are having LCD projectors . Faculty of this department is very dedicated, around 60 % faculty are on the completion of their Ph. D's. Students of this department always achieve university positions. Final year students have designed very sophisticated projects which are useful in industries. Teaching strategies adopted by the faculty are in such a way that the students are having all the necessary basic skills of a competent electronics engineer when he completes his/her course.



Er. Naveen Goyal Assistant Professor & H.O.D.



FOOD TECHNOLOGY HOD MESSAGE

The department was set up in 2014 to cater to the ever growing demand for food technology professionals. The Food Technology Department is one of the best among Bhai Gurdas Institute of Engineering & Technology it offers 4 - year Bachelor of Technology course to the students which is backed by its talented faculty. It also offers lateral entry to the diploma passed students to be admitted to 2nd year of its 4 - year B. Tech course. At BGIET Food Technology department, we aspire for excellence in teaching and education to meet the shortfall of such skilled manpower in the food processing sector. The department also plans frequent visits to food processing plants to show the students various processing and preservation techniques currently in use in the industries. The faculty has developed excellent infrastructure in the laboratories to provide practical knowledge to its students and has strong collaboration with several industries and organizations for internship and placement purposes.

Dr. Raj Kumar Professor & H.O.D

#### **COMPUTER SCIENCE ENGINEERING**



Department of Computer Science & Engineering commits to work towards developing Engineers with a rich blend of competent, technical, social skills and contribute to nation building .Department places emphasis on all the important aspects of computers such as Computer Networks, Mobile Communication, Algorithm Design, Operating System, Advance Database Systems, Software Engg., Computer Graphics and many more. Department takes the initiative to improve the soft skills, analytical capabilities and verbal communication of the students so that they can face the competition in the corporate world confidently. To meet the objectives, department pays special emphasis on teaching and hands on practical work. Students exhibit their innovative ideas, skills and potentials as final vear projects and have won many awards.

The excellent infrastructure, experienced team of faculty dedicates to strengthen effective teaching learning process ensuring quality education. We believe that this approach to teaching-learning, coupled with practical experience gained during Industrial Training equips our students to handle the challenges posed by the IT industry. Students of Computer Science and Engineering are placed with top companies. We as a team resolve to take the Department to heights of success and glory and prepare for the forthcoming challenges.

Dr. Arun Kumar Singh Professor & H.O.D



#### **INFORMATION TECHNOLOGY**

The Department of Information Technology Engineering welcomes you to be become visionaries and change makers of the future. Our distinguished faculty ensures a wide range of diverse learning experiences at both the undergraduate and postgraduate levels, We offer our students the best hands-on experience, intellectual collaboration, research prospects, social impact projects, industry linkages so that they get the best of placements and also contribute to societal growth. The content of every course in our curriculum have been integrated so as to facilitate the development of innovative computational flair among the students. Our department is consistently striving for a better curriculum, teaching and learning practices that will provide scope for the students to acquire knowledge for better opportunities, admissions in prestigious institutions and promote research and consultancy.

Er. Ramandeep Kaur Assistant Professor & H.O.D

#### **MECHNICAL ENGINEERING DEPARTMENT**



Mechanical engineering is one of the oldest and broadest engineering discipline, and plays a significant role in enhancing safety, economic vitality, enjoyment and overall quality of life throughout the world. The college has been simply unstoppable in its progress as it has been actively involved in various activities that have brought to light the hidden talents of the college students and staff. Mechanical Engineering is a professional Core engineering discipline that deals with the design, production and maintenance of any produce of any industry. The pride of every student and staff would be in his/her department and college.

Er. Parminderpal Singh Assistant Professor & H.O.D

#### **DEPARTMENT OF CIVIL ENGINEERING**

It is a great pleasure to see the creative expressions of students who had contributed". The magazine is presenting a glimpse of the growth of the department on many fronts. This magazine provides a platform for students and staff to share information, spread the latest technical knowledge and cultivate right ways that will equip all of us to stay competent in our respective fields of study and research. I congratulate and thank all the students and staff coordinators who have made untiring efforts to bring out this magazine. I wish them all success. Such value additions are very much essential for the young technocrats and engineers, who the college produces, to demonstrate their ideas for a developed India. I sincerely appreciate and congratulate the editorial team for their unrelenting efforts in compiling this magazine. This Newsletter mirrors the vision and mission of department of civil engineering.



Dr. Dinesh Kumar Sharma Professor & H.O.D

### DEPARTMENT OF FOOD TECHNOLOGY

The engineering facets of food processing operations are covered in this area. Every step in the production of food is just the combination of two or more unit actions. It deals with the layout of the facility as well as the design of the equipment, cold storage rooms, refrigeration plants, dairy plants, bakeries, and food processing plants. It focuses on the analysis of several important pieces of food processing machinery, including the microwave oven, dielectric heating, sterilisation equipment, combined heat exchanger, pressure measuring device, Bernoulli's apparatus, hydraulic bench tray apparatus, Reynolds apparatus, infrared moisture metre, sieve shaker, centrifugation equipments, filtering equipments, expression equipment, extraction equipment, bucket elevator, screw conveyor, steam generator, baking equipments, and crystallisation equipments. It focuses on the examination of packaging materials, their practical properties, and their use in the processing sector. Understanding the significance of various size-reduction tools beneficial to the food processing industries is helpful. The study of refrigeration, generation and use of steam, generation and use of renewable energy, and other topics are all covered in great detail.



Dr. Syed Insha Rafiq Associate Professor & H.O.D

#### MASTER OF BUSINESS ADMINSTRATION DEPARTMENT



Welcome you all to the Department of Management Studies at BGIET. The disruptive power of technology is very much evident with the ushering in fourth industrial revolution. It is important that the future generation of leaders should have adequate appreciation of technology. The future businesses are mostly technology enabled or built around emerging technologies. To handle the challenges of an ambitious global career, MBA professionals need selfconfidence, strong character and a multi-dimensional personality. Our department has evolved itself with such a pedagogy that enables the students to be future ready with all the required skill set. We follow a comprehensive teaching, learning pedagogy including case based teaching, project based learning, business games, simulation exercise, experiential learning, expert talks from industry and academia, various certificate courses like: AI for business, Logistics and supply chain Management, grooming modules, Finance Lab, etc. Our aim is to chisel the best out of budding managers and business leaders to make them ready for the challenging business environment. On our part we can assure you of our wholehearted support whenever and whatever desired. we have a great future.

Mrs. Geetika Assistant Professor & H.O.D.

### **INDUCTION PROGRAM**



The Institute have been conducting the induction program for students every year. The induction program is conducted at the beginning of each academic session for the all the newly admitted students. The induction program includes several activities such as **Mentoring and Universal Human Values**: It gets the students to explore oneself and allows one to experience the joy of learning, stand up to peer pressure, take decisions with courage, be aware of relationships with colleagues and supporting staff in the hostel and department, be sensitive to others, etc and **A module in Universal Human Values** provides the base for student's character building. A faculty member is allotted to each class, who also acts as a mentor for the students of that class

### NSS CAMP FOR PLANTATION



The true meaning of life is to plant trees, under whoes shade you do not expect to sit. The N.S.S camp was organized in BGIET, Sangrur on 15 sep 2021. The Chairman Dr. Guninderjit Singh Jawandha and BGIET Director Dr. Tanuja Srivastva along with other faculy members took part in planting sapling. Dr. Tanuja srivastava also enlighten the students about the significance of planting trees and with her motivational speech, students of BGIET also promised that they will also plant more and more trees and make this mother nature better place for the upcoming generation.

### TEACHER'S DAY



BGIET Celebrated Teachers day in the presence of faculty members Of computer Science department . No matter how old we grow, the lessons taught by our teachers can never be forgotten. They build the foundation for our moral values and nurture children with their love and care. This Teachers day, tell your lovable teachers how much you adore them. Feel proud and honoured to celebrate Teacher's day.

# FRESHER'S DAY CELEBRATION

The purpose of Fresher's Party is to welcome new students in a friendly atmosphere and to encourage their creative impulses to boost their confidence. It is the day where seniors and juniors finally bond and unite to celebrate being part of the college. Students of First Year were welcomed with red rose to this party. The program started with lamp lightening and inaugural speech by Hon'ble Director, Dr. Tanuja Srivastava for the fresher's. Various activities were performed by the senior as well as junior students like dancing singing, ramp walking etc. Students enjoyed each and every second of that party. After that pictures were clicked by the students with each other and with their respective teachers.



In the presence of respected Chairman Sir, Dr.Guninderjit Singh, Managing Director Suvreet Kaur Jawandha and Director Tanuja Srivastva, fresher's day is celebrated in BGIET.

### **SPORTS**



BGIET celebrated sports meet in presence of Chairman Dr. Guninderjit Singh Jawandha.

Sports are an essential part of our lives. For the all-round development of our personality, we must take up a sport and follow it, without a break. To make students aware of the need to play various sports, colleges have a compulsory subject on sports and physical education. Our institute organized this year's sports day .The responsibility of the sports day was taken by the sports teacher and the student's organization.

The preparations for the sports day began 2 weeks before the actual event. The organizing committee prepared the list sports and games that are to be played, the number categories and number of prizes in each category, and took the permission from our director for it On sports day Dr. Tanuja srivastva director of BGIET, Sangrur encouraged students to take part in games and motivated them to live a healthy life.



### **BHAI GURDAS ENGG. COLLEGE, SANGRUR**

Subhanjan Das, 8th Semester BTech in Civil engineering from BGIET, Sangrur



Students of BGIET Participated in Body Building Competition. Got 2<sup>nd</sup> position in Belonia (South Tripura) weogjt ;oftomg and power Lifting Opening, Ceremony Demostartion



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BGIET celebrated New Year in Remembrance of S. Hakam Singh Jawandha Founder Chairman



Institute celebrated New Year in Remembrance of S. Hakam Singh Jawandha Founder Chairman, BGIET.A New Year means 365 new opportunities. Make sure to make the best use of it! Happy New Year. Forget the short comings of the previous year and embrace this fresh start with utmost zeal. Welcome this year with renewed hope and high spirit! Wishing everyone Happy New Year 2022.January 1, 2022 BGIET, Sangrur the students, faculties and members of BGIET celebrated new year for the year 2022in the college campus on January 1. The program commenced with a warm welcome and cake cutting ceremony and marks the arrival of fresh New Year by bidding goodbye to the previous year 2021. All the members of BGIET were cordially invited to join the program. The program was graced by the presence of Dr. Guninderjit Singh Jawandha, Chairman BGIET, Madam Baljinder Kaur Jawandha, Secretary BGIET, along with family flowers Japhar Jawandha and Ranvijayjot Singh Jawandha. Students organized a small cultural program Bengali Dance, Nepali Dance, Punjabi song; Comedy received thunders of applauses from the audience.



Festivals are an essential part of our lives as the greatness of a culture can be found in its festivals, BGIET Soleminized lohri the folk festival of Punjab and Director Dr. Tanuja Srivastva along with Madam Baljinder kaur wished all the faculty members and students and encourage them to work more energetically.BGIET solemnized Lohri the folk festival of Punjab



BGIET Director Dr. Tanuja Srivastava wished faculty members and students happiness and success on the festival of holi. Festival of colors was observed in BGIET Sangrur, BGIET celebrated the fiesta with students of Nepal, Bengal Sudan, Kashmir and others at the campus. The faculty of BGIET played holi with students and wished them happiness and success.

### **ALUMNI MEET**



The Alumni Association of BGIET organized "ALUMNI MEET - a programme to facilitate, consolidate and coordinate Alumni Activities at confrence Hall .The alumni meet is to reconnect with the Alumni and celebrate their success and various achievements. The Alumni started arriving in institute by 9.00 a.m. and they were received by the registration team and they have been asked to fill the registration form. The Alumni Meet started with a welcome address by the alumni association president. The meeting was graced by the chairman Dr.Guninderjit singh jawandha . Alumni also interacted with the students and gave motivational talk regarding preparing for higher studies and placements. Students asked many questions regarding placements and the alumni shared their view. Alumni association secretary thanked the various organizers alumni members of the event. He also thanked the management of BGIET for the support and guidance which has made Alumni Meet 2021 a grand success.

### INTERNATIONAL WOMEN DAY CELEBRATION



BGIET inaugurated awareness camp for women on women's day.

#### **BGIET** Celebrated Women's Day

Bhai Gurdas Group of Institutions organized the International women's Day on the theme of "BREAK THE BIAS" in association with art of living. This event was organized at the premises of Bhai Gurdas Group of Institutions, Sangrur. A Medical camp was also organized for general checkups of students and faculty members In this event special guest Mr. Rajesh Jindal, Expert (Art of Living) inspired students and faculty members to live a life full of positivity and cheerfulness. In his motivational speech motivated why women should be treated equally without any bias or prejudice and asked them excelled themselves in their interest. However, he said today women's have reached the moon and plays a vital role in shining the image of city, state & country. On March 8, Women's Day is commemorated to honour women of all ages and races in a world where they can live freely and up to their own terms. Sardarni Baljinder Kaur Jawandha, Secretary BGIET and Prof(Dr.) Tanuja Srivastava, Director BGIET welcomes the guest with bouquet and enlighten with their wonderful thoughts how "Narri Shakti" has become phenomenon across the world and Women have always been suppressed by some kind of force that has restricted their choices and freedom. But as times are progressing, women are rising up to their full potential and taking steps to ensure they have the means, choice and freedom to speak, and do whatever they want. Concluded the event with honoring the guest and wishes women that this day belongs to you. May you prosper and stood affirm in the course of life. Happy International Women's Day.

### NSS CAMP



NSS camp organized by BGIET

# INDUSTRIAL VISIT



Students of B.Tech Electrical Engineering of first semester visited Verka Milk Plant, Sangrur on industrial visit. Industrial visit provide practical exposure to students of course curriculum. It will enhance their knowledge by learning things physically.BGIET faculty members with students on industrial visit.

### EXTRA CURRICULAR EVENTS



Bhai Gurdas Institute of Engineering Technology, Sangrur organized extra, curricular events 2021. The events fest aimed to bring students together of different states with their innovation and different ideas they have implemented in their final year of academics. Event was started with lamp lightning by chief guest along with the other dignitaries. The chief guest highlighted different ways in which students can come up with the ideas of innovation and can do remarkable things with the resources available in the country. It is truly a remarkable achievement for BGIET in organizing the event. A team of technically strong judges have been invited for various parallel judgments. Students participated in various activities such as rangoli making, drawing, poster presentation and quiz competition, with great enthusiasm.

### LOHRI CELEBRATION



BGIET solemnized lohri the folk festival of Punjab on 13 Jan 2021

### **Cultural Events**



BGIET feliciated festival of Vaishakhi and students show enthusiasm by performing the bhangra and gidha.

### **STATEHOOD DAY**



BGIET culture festival with great spirit. Celebrated Arunachal statehood day.

# SEMINAR ON EMPLOYMENT GENERATION



A seminar on employment generation held in BGIET



A seminar on employment generation held in BGIET

# SEMINAR ON YOUTH AWARENESS



Respected Director Tanuja Srivastva Managing Director Dr. Suvreet Kaur Jawandha with other facult members clued up students about their future.

## FAREWELL PARTY



The Farewell party was organized in BGIET on 8 july 2022 in the auditorium where students of institute Bid farewell to the outgoing students of BGIET with great enthusiasm! The function began with the welcome speech of Dr .Pawan Kumar Sharma.Students of, current batch, presented very interesting skits, group dance and Solo singing performances which entertained the audience to the fullest. A melodious Qawali, was presented , a beautiful skit showing a contrast between college and school life. Students entertained the audience with their energy rich dance performances. The performances were thoroughly enjoyed by the audience!Many interesting and tricky games were played to pep up the environment.Different Titles were awarded to different students. Summing up, the day was great, filled with nostalgia and fun and excitement!

### PLACEMENTS



### **PLACEMENTS**



Bhai Gurdas Group of Institutions, Sangrur is proud to announce the placement drive for B. Tech CSE, IT and MCA students by Bhanguz, Mohali India. Bhanguz, is a leading professional web development company in Northern India offering an array of web development, website design, I phone / Android Applications and e-commerce solutions to clients around the world. Students are invited to participate and avail the opportunity. CEO Bhangur, Mohali with Chairman Sir And Director Madam.



### **Placement Drive in BGIET by renowed Copanies**



BGIET congratulate SHUBHAM GOYAL FOR his selection in Bajaj finance as an assistant manager, BGIET is always committed and taking hard steps to insure the 100% placement of students.

#### **EDITORIAL TEAM**

Dr. Manpreet Singh (Associate Professor, E.E. Dept.) Er. Parminderpal Singh (Assistant Professor, M.E. Dept. Er. Sukhminder Kaushal (Assistant Professor, E.C.E Dept.) Mrs. Sandeep Kaur (Assistant Professor, M.B.A. Dept.) Ms. Swati (Assistant Professor, F.T. Dept.) Er. Mohit (Assistant Professor, C.E. Dept.)

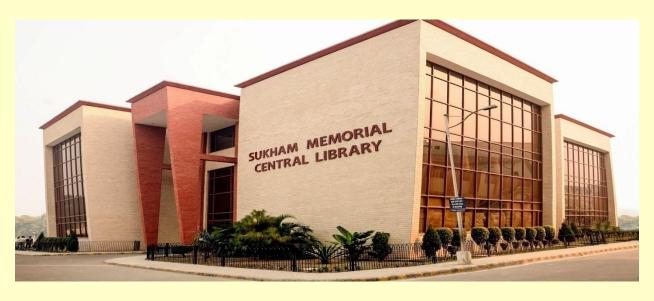
### **Riddles**

- 1. What needs to be broken before you can use it? Answer: An egg
- 2. Not many people have stepped on me. I never stay full for long. I have a dark side. What am I?

Answer: The moon

- 3. I am running all the time, but never get tired or hot. What am I? Answer: The refrigerator
- 4. You can touch me, but I can't touch you back. You can see me, but I only reflect you and can never reject you. What am I? Answer: A mirror
- 5. I'm tall when I'm young and short when I'm old. What am I? Answer: A candle
- 6. What month of the year has 28 days? Answer: All of them
- 7. What is full of holes but still holds water? Answer: A sponge
- 8. What question can you never answer yes to? Answer: Are you asleep yet?
- 9. What gets wet while drying? Answer: A towel
- 10. A man dies of old age on his 25th birthday. How is this possible? Answer: He was born on February 29.
- 11. What 2 things can you never eat for breakfast? Answer: Lunch and dinner.
- 12. It belongs to you, but your friends and family use it more. What is it? Answer: Your name.
- 13. Robin's mother has three children: Maria, Rose and \_\_\_\_? Answer: Robin
- 14. There's only one word in the dictionary that's spelled wrong. What is it? Answer: The word, wrong.
- 15. I have a tail and a head, but no body. What am I? Answer: A coin.

# BHAI GURDAS INSTITUTE OF ENGINEERING & TECHNOLOGY



<sup>.....</sup>VISION.....

To impart value based multidisciplinary quality education to the students which can enable them to contribute their knowledge I industrial development, technology revolution and economic growth ogf the nation with global prospective.

......MISSION.....

**1.** TO develop technical manpower of quality standards with capabilities of accepting new challenges.

2. To provide excellent teaching and research environment.

**3.** To promote collaborative coexistence amongst academic institute and industries for resource sharing.

.....QUALITY POLICY.....

We are committed to provide and continually improve the healthy learning environment and supporting faculties for the students at Under Graduate and Post Graduate Level to achieve academic excellence for better opportunities.