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DEPARTMENT OF CHEMICAL ENGINEERING  
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR  
COLLEGE OF ENGINEERING (Autonomous)  
ANANTAPURURAMU – 515002 (A.P), INDIA



Dr. DILIP KUMAR BEHARA  
M.Tech, Ph. D (IITK)  
Associate Professor & Head of the Department

Date: 3<sup>rd</sup> June, 2022

### CIRCULAR

The following student clubs were resumed in the Department of Chemical Engineering with following staff & student volunteers

S. No.	Name of the Club	Name of the Faculty Member	Name of the Student Coordinators
1.	Sports Club	Dr. T. Bala Narsaiah	S. Teja M. Madhuri
2.	Dance Club	Dr. S. Sharada	M. Jahnavi G. Manoj Kumar
3.	Group Discussion Club	Mr. M. Kalyan Kumar	M. Swarna Sree P. Ayub khan
4.	Exam Club	Dr. B. Dilip Kumar	A. Jayanth Reddy N. Tiruvasagan
5.	Singing Club	Dr. S. Sharada	J. Arun Kumar Y. Lakshmi Praseeda
6.	Photography Club	Dr. B. Dilip Kumar	D. Pavan Kumar P. Mukesh
7.	Arts Club	Mr. M. Kalyan Kumar	K Sai Deeksha Reddy M. Bhavana
8.	Yoga & Meditation Club	Dr. T. Bala Narsaiah	V Rahul P. Mamata

  
Dr. B. Dilip Kumar  
HEAD

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## **DEPARTMENT OF CHEMICAL** **ENGINEERING** **LIST OF STUDENTS CLUBS**

- **EXAMS CLUB**
- **ARTS CLUB**
- **PHOTOGRAPHY CLUB**
- **GROUP DISCUSSION CLUB**
- **SINGING CLUB**
- **DANCE CLUB**
- **SPORTS CLUB**
- **YOGA AND MEDITATION CLUB**

# EXAMS CLUB - CHALLENGERS:

STUDENT COORDINATORS:-

A.JAYANTH

N. TIRUVASAGAN

The purpose of the exams club is to reflect on the use of club exams for facing competitive exams for pursuing career.

The exams club was developed and administered by student on their own. The exams is on a randomized controlled trail which every student in the club are part of administration .At most priority given to every exam which were conducted .Students were given about one week to prepare for exam on their own in collaboration with their peers. The exam consisted of 40 multiple choice that were specific to the core subjects, general aptitude and English. After each exam top two students were awarded with a small gift .

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# ARTS CLUB- CREATORS

## STUDENTS COORDINATORS:-

K.SAI DEEKSHA REDDY

M.BHAVANA



An arts club is an organization or group of individuals who share a common interest in the arts and come together to participate in and promote various forms of artistic expressions .

The main motive of this arts club in chemical engineering department is relating the art with chemical engineering. Participating in an arts club can be a great way to meet like-minded individuals ,share creative ideas and techniques ,and gain inspiration and motivation for your own artistic pursuits .It can also provide opportunities to showcase your work and gain exposure to new audiences.

There are many activities that the coordinators have in this club are firstly, they have created a group for all the participants and held a meeting about introduction of the arts club with the help of google meet ,in that meeting they have discussed about the action plan for the arts club ,the first competition in the club, how one can relate chemical engineering and art etc .Next the coordinators have held a meeting in person in the department with the arts club group members and interacted with them about art ,collected some thoughts form them.

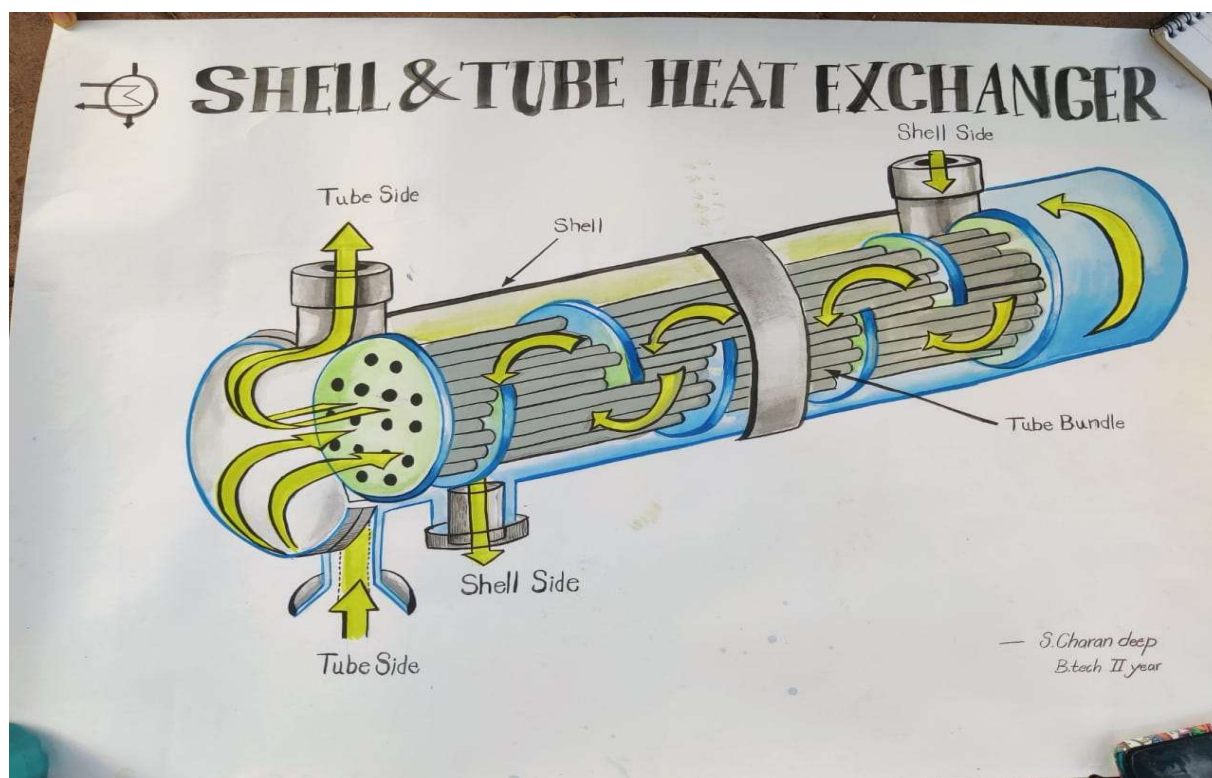
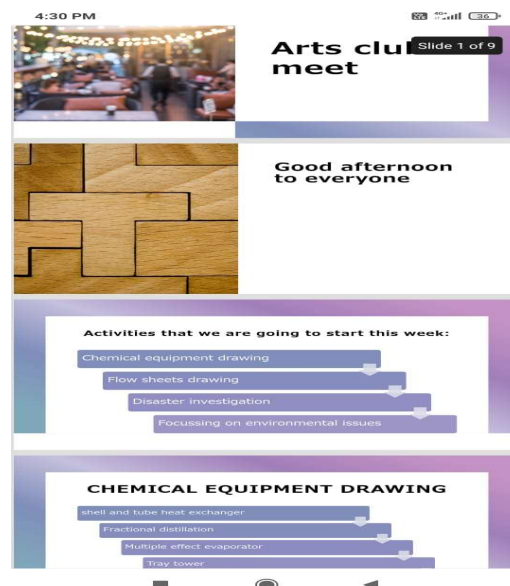
The drawing competition related to chemical engineering is held on 1/04/2023.The students in the arts club group has came up with several interesting drawing related to chemical engineering like shell and tube heat exchanger, multiple effect evaporator, double pipe heat exchanger, explained about Bhopal gas tragedy, Chernobyl nuclear reactor blast in a quite creative way .Among all the drawings shell and tube heat exchanger drawn by Mr.Charan , 2<sup>nd</sup> year ,chemical engineering has



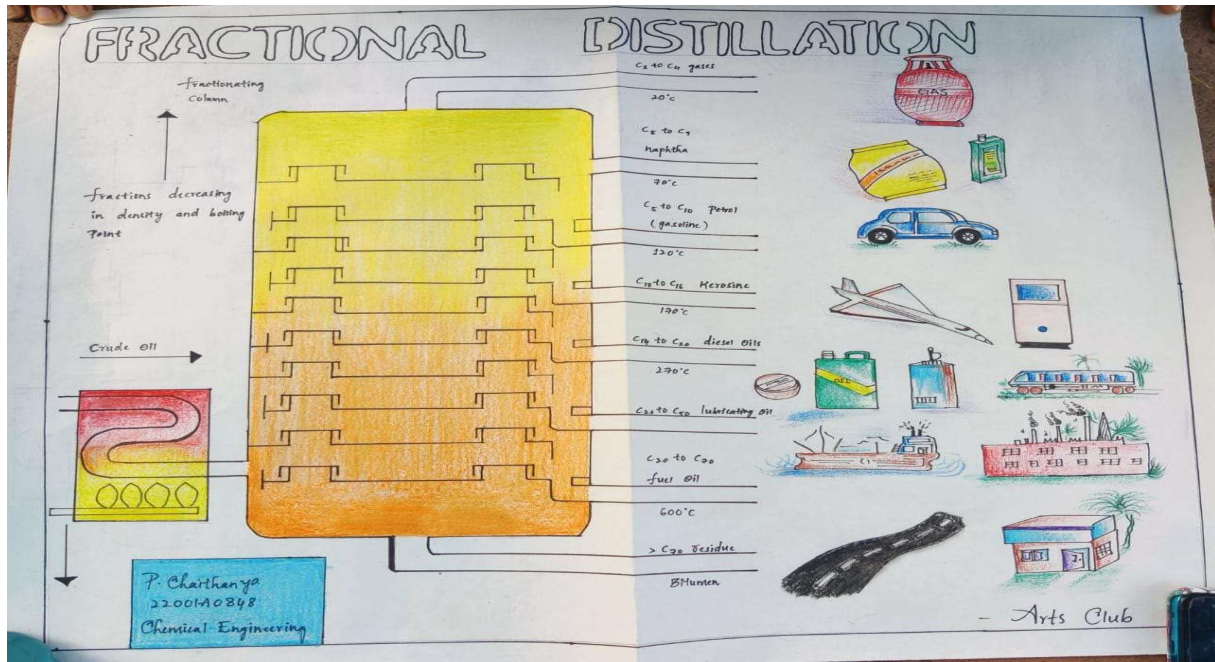


got the 1<sup>st</sup> prize , writing about Bhopal gas tragedy drawn by Ms. Zaiba Kauser ,1<sup>st</sup> year has got 2<sup>nd</sup> prize and fractional distillation drawn by Mr.P.chaithanya ,1<sup>st</sup> year has got 3<sup>rd</sup> prize in the drawing competitions. The certificates for the above winners were issued by head of the department Dr.B.Dilip kumar.

The arts club has involved in many activities conducted in the department like in FUSION-2K23 it has involved in painting, growing plants ,decoration in a sustainable way



**Drawings drawn by arts club students:**



# Bhopal Disaster

The Union Carbide India Limited (UCIL) factory was built in 1969 to produce the pesticide sevin using MIC as an intermediate. On the night of 2-3 Dec 1984, thousands died, at 30 tonnes of highly toxic **methyl isocyanate gas** leaked from UCIL factory in Bhopal, Madhya Pradesh.

**MIC** - It is a colourless liquid used in making pesticides.

**Chemical Reaction:**

$$\text{CH}_3\text{NH}_2 + \text{COCl}_2 \rightarrow \text{CH}_3\text{N}=\text{C}=\text{O} + 2\text{HCl}$$

Methylamine + Phosgene (MIC) Methyl Isocyanate gas

**MIC** +  $\alpha$ -Naphthol  $\rightarrow$  J-Naphthyl-N-methylisothiocarbamate (Carbaryl)

This was occurred due to improper procedure and improper maintenance of temperature and pressure. And the man the victims blame for tragedy is **Warren Anderson** whose plant was the source of deadly MIC gas.

**Solution for the disaster:**

- Alpha Naphthol on carbonyl group addition followed by reaction with methyl amine would eventually gives carbaryl.
- This process doesn't require storage of MIC and it is inherently safe process.

Clouds were dense with sky unusually dull. A very unpleasant scene. Something strange for those who stayed and for those who heard, where all were seen rubbing their eyes or vomiting blood. A prayer for rain was needed, the helpless with much debates were left alone after, still with no justice. It was the gas leak, people were told...

Leakage of Methylisocyanate Gas (MIC)

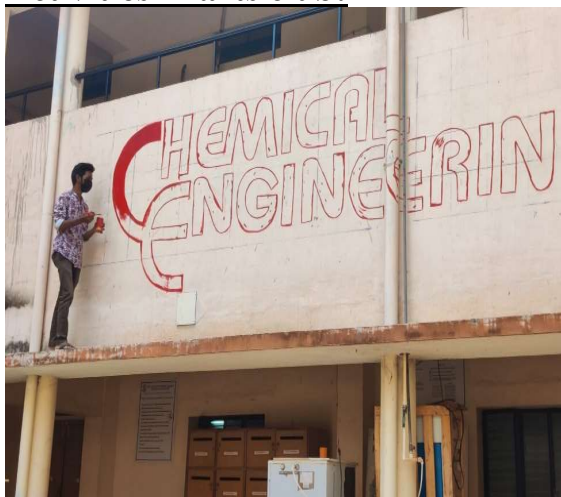
Syed. Zaiba Kouser  
22001A0835  
B.Tech. IT  
Chemical Engineering



### Issuing of merit certificates:



### Activities in arts club:



DRAWING ON THE OCCASION OF 75<sup>TH</sup> INDEPENDENCE DAY :





# PHOTOGRAPHY CLUB -CLASSICS

STUDENT COORDINATORS:-

D.PAVAN KUMAR

V.RAHUL

MUKESH



It is a group of creative and enthusiastic individuals who share a passion for capturing the beauty of the world around the people through the lens of a camera.

This club is made up of students and faculty members from the Chemical Engineering department who want to explore the art of photography and develop their skills. Whether you are a beginner or an experienced photographer, this club welcome you to join and share your ideas and perspectives.

Through this club, the club coordinators main aim is to provide a platform for members to learn, create, and showcase their photographic talents. They organize regular workshops, photo walks, and interactive sessions that focus on various aspects of photography, including composition, lighting, editing, and more. They also encourage members to participate in competitions, exhibitions, and other photography-related events both on and off-campus.

This club is not just about taking pictures, but also about building a community of like-minded individuals who appreciate the power of visual storytelling. They believe that photography has the ability to inspire, educate, and connect people from all walks of life .So, if you are looking for a creative outlet to express yourself and meet new people, come join this club . They have conducted several competitions on photography. This photo got the highest likes and it is selected as the profile pic of the week, this photo was taken by Yashoda, 2nd year BTech and they have conducted competition on Instagram on the chemical engineering department post, 1st place with 23 likes which was taken by V. Sowmya, 2nd year BTech, picture got 2nd place with 22 likes taken by Jangati Nitya sree, 1st year BTech, picture got 3rd place with 20 likes taken by Dola Harshini , 1st year BTech.



1<sup>st</sup> prize in photography contest



2<sup>nd</sup> prize in photography contest:



3<sup>rd</sup> prize in photography contest



**VIDEO LINK:**

<https://drive.google.com/file/d/1ZGSy7SQmoCvFzE40ueCSnhIo01ay-8ah/view?usp=sharing>

# GROUP DISCUSSION CLUB - CLEVERS

STUDENT COORDINATORS:-  
M. SWARNA SREE  
P. AYUB KHAN



Group discussions are of great importance for various reasons. Here are some key reasons why group discussions are valuable:

- Exchange of ideas and perspectives: Group discussions provide an opportunity for individuals to share their ideas, opinions, and perspectives on a particular topic. This exchange of diverse viewpoints enriches the discussion, encourages critical thinking, and helps participants gain new insights and knowledge.
- Enhanced learning: Engaging in group discussions allows individuals to learn from each other's experiences and expertise. Participants can share their knowledge, ask questions, and clarify doubts, leading to a deeper understanding of the subject matter.
- Improved problem-solving skills: Group discussions foster collaborative problem-solving. By pooling together different ideas and approaches, participants can analyze problems from various angles and develop innovative solutions. The collective intelligence of the group often results in more effective problem-solving than individual efforts.
- Development of communication skills: Participating in group discussions helps individuals refine their communication skills. They learn to express their thoughts clearly, articulate arguments, and listen actively to others. Effective communication is a vital skill in personal, academic, and professional settings.
- Preparation for real-world scenarios: Group discussions simulate real-world scenarios where collaboration and effective communication are crucial. By engaging in group discussions, individuals develop skills that are transferable to various situations, such as team projects, meetings, presentations, and social interactions.
- The time limit for a group discussion is 30 to 40 minutes .
- People are classified into the categories based on the knowledge they have



regarding leadership skills, communication, good understanding.

- The interested people have already joined in the club participants are sub divided as groups and each group consist of 8 to 11 members .
- In this way the group discussions are conducted in the chemical engineering department .

Overall, group discussions are important for promoting active learning, critical thinking, effective communication, collaboration, and personal growth. They provide a platform for individuals to engage with diverse perspectives, enhance their understanding, and develop valuable skills that are applicable in aspects of life.



**VIDEO LINK:**

<https://drive.google.com/file/d/1ZE0-jDgWv0K42xNJn6QCjAqnZuIxa5kV/view?usp=sharing>

# SINGING CLUB - CROONERS

STUDENTS COORDINATORS:-

Y .LAKSHMI PRASEEDHA

J. ARUN KUMAR

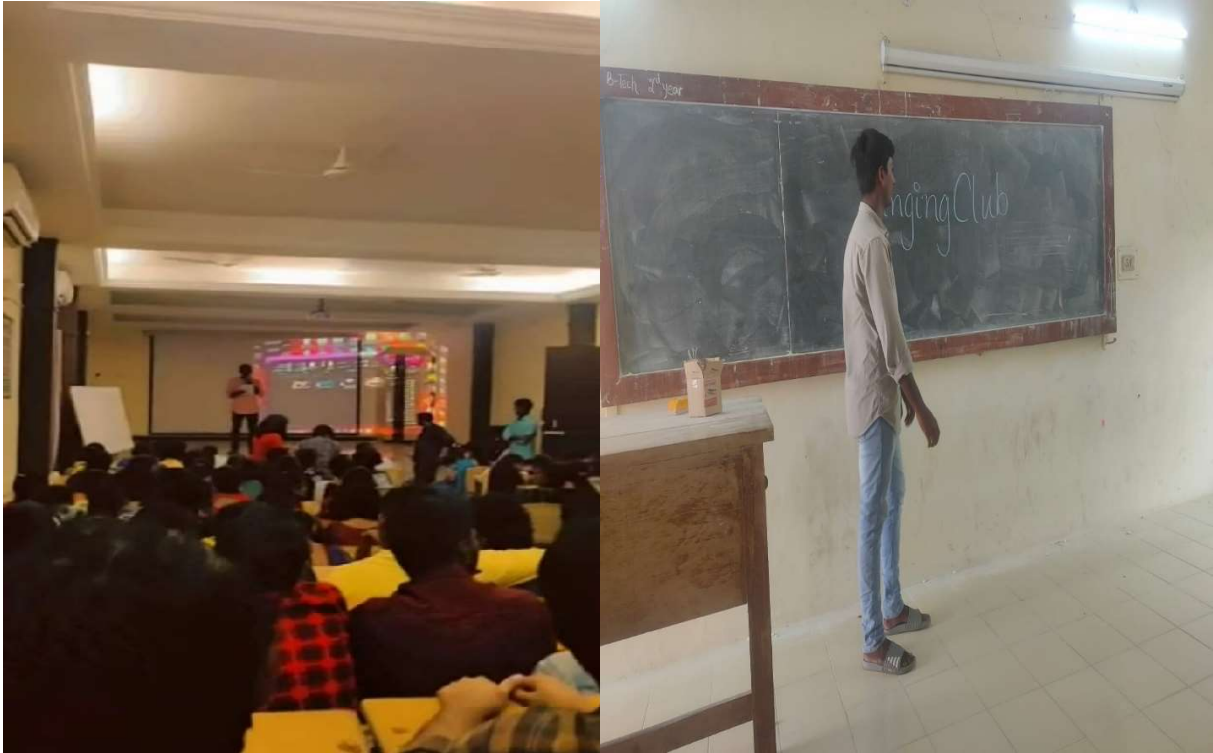
S.HARSHITHA



- The main motive of singing club is to promote one's own passion towards singing. Some people enjoy expressing themselves through song and find joy in harmonizing with others who share the same passion.
- Singing clubs provide a supportive and collaborative environment for members to improve their vocal skills. Through regular practice, vocal exercises, and feedback from fellow members, individuals can enhance their singing abilities and grow as performers.
- Singing clubs may offer performance opportunities, allowing members to showcase their talents in front of an audience.
- Singing clubs provide a space where members can unwind, release their emotions, and experience the uplifting power of music.
- This club coordinates and club members have participated in several events that were held in college like college day ,sports day, innovative day , department fest ,farewell 2k23 etc.

## SOME OF THE PARTICIPATIONS:





**VIDEO LINK:**

[https://drive.google.com/file/d/1Z6XPPkGQRzfPeFMKV6g05kgwUigadFR\\_/view?usp=drivesdk](https://drive.google.com/file/d/1Z6XPPkGQRzfPeFMKV6g05kgwUigadFR_/view?usp=drivesdk)



# DANCE CLUB - CHARMERS

STUDENTS COORDINATORS

M.JAHNAVI

R .KEERTHANA

G .MANOJ KUMAR

Dance club creates a unique cultural experience in the present world. Dance club culture encompasses several different areas of social phenomenon. This dance club is to boost up the morale of students and to highlight the talent of dance and creativity.



## **CLASSICAL DANCE:**

Classical dance forms use basically the **mudras** or signs of hand as a common language of expression. Our culture and tradition is depicted by classical dance.

## **FOLK DANCE:**

Folk dance depicts the culture of a particular area or place. Most folk dances have intricately -designed costumes. Different forms are originated in different parts of India developing according to the local traditions and also imbibed elements from other parts of the country.

## **WESTERN DANCE:**

Modern western dance is a part of this global language and its roots run wide and deep. Western dance can be done with ease without any constricted rules.

## **LIST OF EVENTS PARTICIPATED BY DANCE CLUB**

- 1.College Day celebrations
- 2.FUSION-2K23
- 3.Women's Day celebrations
- 4.Go Green event
- 5.Independance day celebrations

## 1.COLLEGE DAY CELEBRATIONS:



The students of dance club of chemical engineering department had actively participated in the college day celebrations and performed dance in the event. The event was organized on 29<sup>th</sup> march 2023.

## 2.FUSION-2K23:



There was an outstanding and dynamic flash mob in the chemical engineering department. The students who performed in the flashmob were trained. The flashmob was performed as a part of the department fest FUSION-2K23 on 29<sup>th</sup> march 2023.

### 3.WOMEN'S DAY CELEBRATIONS



Women's Day was celebrated in main building auditorium of JNTUACEA on 8<sup>th</sup> march 2023. The members of the dance club had actively participated the event and made the event a grand success. There was a very good co-ordination between students and faculty. Dr.S.Sharada (NSS Coordinator) from the department of chemical engineering had organized the event and Ms.M.Jahnavi(20001A0805) studying 3<sup>rd</sup> year in the department of chemical engineering worked as student coordinator for the event.

### 4.Go green event



Titan company accompanied by chemical engineering dance club had organized GO GREEN event on 14<sup>th</sup> October 2023 in JNTUACEA. The students of dance club had actively participated in this event. The students of dance club not only involved in dance but also in anchoring, performed a skit on the theme GO GREEN and worked in arrangements team.



## 5.Independence day celebrations-2022



As a part of Independence Day celebrations, the dance club of chemical engineering department had performed a dance on **HAR GHAR TIRANGA** manifesting the importance of Independence Day and our National Flag. The theme of this performance is to encourage people to bring the Tiranga home and to hoist it to mark 75<sup>th</sup> year of India's Independence and to invoke the feeling of patriotism in the hearts of the people and to promote awareness about the Indian National Flag.

# SPORTS CLUB-COMPETITORS

STUDENTS COORDINATORS:-

S.TEJA

SRIRAM JYOTHISH



Sports are physical or mental activities that involve a level of skill, competition, and/or physical exertion. There are many different types of sports, including team sports, individual sports, and recreational sports. Team sports involve groups of people working together to achieve a common goal, such as basketball, soccer, or football. Individual sports, on the other hand, are activities where the focus is on individual performance, such as running, swimming, or tennis. Recreational sports are typically less competitive and more focused on leisure and enjoyment, such as golf, bowling, or hiking.

Sports can have a wide range of benefits for individuals and society as a whole. They promote physical health and fitness, improve mental well-being, and provide opportunities for socialization and community involvement. Sports can also help to develop important life skills, such as teamwork, leadership, and perseverance. Professional sports, which are played at a high level of competition, are often associated with fame, fortune, and intense media coverage. Many people follow professional sports as fans and support their favorite teams or athletes.

Overall, sports play an important role in our lives and have a significant impact on individuals and society. Healthy mind refers to a healthy body so, Sports has the capacity to transform the character from of every student involvement in sports on campus is something like that seems inevitable for highly potential benefits to students many essential life skills like sportsmanship discipline and hard work are included in the students through this activities.

## **Games conducted by sports club:**

- Cricket
- Volleyball
- Handball
- Basketball
- Athletics

## **SOME OF THE ACHEIEVEMENTS OF THE STUDENTS**

- **JPL(JNTU Premier League) cricket winners**



- **EPL (Ellora premier league ) winners**



- **Handball winners**





- Throw ball winners



# YOGA AND MEDITATION CLUB- CALMERS

STUDENTS COORDINATOR:-  
P .MAMATHA  
V.RAHUL

Yoga and meditation are two practices that are closely related and often used together to achieve physical, mental, and spiritual wellness. Here's some information on each:

## **Yoga:**

Yoga is a physical, mental, and spiritual practice that originated in ancient India over 5,000 years ago. The word "yoga" means to unite or yoke, and the practice is designed to bring together the mind, body, and spirit.

There are many different styles of yoga, but most involve practicing various poses (asanas), controlled breathing (pranayama), and meditation. Some styles of yoga are more physically intense and focus on building strength and flexibility, while others are more gentle and focus on relaxation and stress reduction. The benefits of practicing yoga include improved flexibility, balance, strength, and posture, as well as reduced stress and anxiety, improved sleep, and a greater sense of overall well-being.

## **Meditation:**

Meditation is a practice that involves training the mind to focus on a particular object, thought, or activity in order to achieve a state of calm and relaxation. The practice has been used for thousands of years in various cultures around the world as a way to improve mental and physical health, reduce stress and anxiety, and increase overall well-being.

There are many different types of meditation, but most involve finding a quiet place to sit or lie down, focusing on the breath or a particular object, and allowing the mind to become calm and still. Meditation can be practiced for just a few minutes a day or for longer periods of time, depending on your preferences and schedule.

The benefits of practicing meditation include reduced stress and anxiety, improved concentration and focus, increased feelings of calm and relaxation, and a greater sense of overall well-being.

Many people find that combining yoga and meditation can be particularly beneficial, as the physical practice of yoga can help prepare the body and mind for meditation, while the mental focus of meditation can deepen the benefits of yoga.

On 21<sup>st</sup> July ,2022 the **YOGA DAY** is celebrated in the premises of the chemical engineering department ,the chief guest for that programme is Mamatha mam from **ART OF LIVING** ,she taught the students about Sudharshan kriya which plays very prominent role in ones life.

### Yoga day :









