



Bapuji Educational Association®
BAPUJI INSTITUTE OF ENGINEERING & TECHNOLOGY, DAVANGERE.

Mech News

Annual News Letter of Mechanical Engineering Department

January -December 2022

(For private circulation only)

*All of us do not have
an equal talent, yet all
of us have equal
opportunities to
develop our talents*

—
Ratan Tata

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Aniruddha N 5th semester
Syed Shaheed 5th semester



In This Issue....

-  Departmental Activities
-  Students Activities
-  Art gallery

VISION:

The Department endeavors to be a center of excellence to provide quality education leading the students to become professional mechanical engineers with ethics, contributing to the society through research, innovation, entrepreneurial and leadership qualities.

DEPARTMENT MISSION:

- ❖ To impart quality technical education to students through effective teaching learning process leading to development of professional skills and attitude to excel in Mechanical Engineering.*
- ❖ To interact with reputed institutions and R & D organizations to enhance academic and research activities.*
- ❖ To inculcate creative thinking abilities among students and develop entrepreneurial skills and innovative ideas.*
- ❖ To imbibe ethical, environmental and moral values amongst students through broad based education.*

PROGRAM EDUCATIONAL OBJECTIVES (PEOs) OF THE DEPARTMENT

- 1. Enable to understand mechanical engineering systems those are technically viable, economically feasible and socially acceptable to enhance quality of life.*
- 2. Apply modern tools and techniques to solve real problems in mechanical and allied engineering streams.*
- 3. Communicate effectively using innovative tools to demonstrate leadership and entrepreneurial skills.*
- 4. Be a professional having ethical attitude with multidisciplinary approach to achieve self and organizational goals.*
- 5. Utilize the best academic environment to create opportunity to cultivate lifelong learning skills needed to succeed in profession.*

PROGRAM SPECIFIC OUTCOMES (PSOs) OF THE DEPARTMENT

- 1. PSO1: Apply the acquired knowledge in design, thermal, manufacturing and interdisciplinary areas for solving industry and socially relevant problems.*
- 2. PSO2: To enhance the abilities of students by imparting knowledge in emerging technologies to make them proficient mechanical engineers.*

HOD'S DESK



Dr G. Manavendra
Professor and Head of Department

The National Education Policy 2020 (NEP 2020) implementation is committed to bringing about revolutionary changes in academic infrastructure by nourishing academic institutions in order to build robust academic machinery and establish an everlasting learning environment of internationally recognized standards.

The new curriculum is aligned with the skill qualification framework, and formative assessment will be used instead of summative assessment, as was previously done.

Mechanical Engineering (ME) has a broader application, particularly in the design and manufacturing industries. Modern society currently has a significant need for experienced engineers due to emerging technologies. Because of this, the demand for highly trained engineers with backgrounds in mechanical engineering can only be met in institutions with highly complex infrastructure, including laboratories, workshops, and quality educational programmes.

The Skill Development Centre is designed to provide our students with hands-on training in the latest technology, tools, and techniques used in the industry. We have invested in state-of-the-art equipment and software to ensure that our students are prepared to meet the demands of the modern workplace.

We have introduced new machinery and equipment, including CNC machines, 3D printers, including five axis machine. These machines and equipment are state-of-the-art and enable our students to learn the latest skills and techniques in mechanical engineering.

In addition to the new equipment, we have also introduced new courses and training programs in collaboration with industry experts. These programs are designed to enhance the employability of our students and provide them with the skills and knowledge required to excel in their careers.

Overall, the Skill Development Centre at the Mechanical Engineering Department has been successful in providing our students with practical, hands-on experience in various areas of mechanical engineering. We will continue to enhance our facilities and introduce new courses and programs to ensure that our students remain at the forefront of the industry.

DEPARTMENTAL ACTIVITIES

1. Inauguration of Royal – Mech Forum and Welcome to 3rd and 5th Semester Students of 2021-2022 & 2020-2021 was held on 23-11-2021. The programme was inaugurated by Sri. Manjunath B V, Scientist DRDO, Bangalore. The Incharge Principal Dr. K.Sadashivappa, the Director Prof. Y. Yrushabhendrappa, HOD Dr. G. Manavendra, Forum co ordinators D.E. Umesh and Mohan T R and all teaching and non teaching staff members attended the program. The program was attended by nearly 200 students.



Shri Manjunath B V, Scientist DRDO, Bangalore, Inaugurated The Royal – Mech Forum Activities for the year 2021-2022

Sri Manjunath B V delivered a talk on Future Mechanical Engineers he explained the Job opprtunities at various domin like Renewable Energy, Advanced oil and gas Exploration and recovery , Advanced materials , 3D printing,Energy storage , Next generation Genomics, Autonomous and near autonomous veichles, Advanced ROBOTICS, cloud teccnology, Intrenet of Things (IOT), Automation of Knowledge work , mobile Internet etc...

Sri Manjunath B V delivered a talk on Future Mechanical Engineers & Design and Development of Mechanical Systems for Aircraft and Helicopters



- 2 Sri. Krishnamurthy.M Elite Institute of Technology, CAE Training and Engineering Solution Hub, Davangere. He has worked for Boeing, Airbus, Satyam, H etc. was delivered technical talk on usage of MSC-NASTRAN/PATRAN Software Applications in Aerospace Engineering. This seminar Mech Forum. HOD Dr G. Manavendra, Forum co ordinators D.E. Umesh and Mohan T R and about 70 students attended the program. On 18-12-2021



3. Mr. Mohan Kumar L Cadd Centre Davanagere, he delivered a technical talk on “Emerging trend in Mechanical Engineering” This seminar Mech Forum. HOD Dr. G. Manavendra, Forum co ordinators D.E. Umesh and Mohan T R and about 70 students attended the program. On 05-05-2022



Inauguration Of Yantrik 2022



Blood Donation Camp was organised by **Royal Mech Forum** on 9-6-2022 in association with **INDIAN RED CROSS WING**, NSS Unit BIET and Dept. of Sports.

Total 68 students have donated the blood.



Various activities conducted During Yantrik 2022



Certificates were issued by **INDIAN RED CROSS WING** To all Blood donors

BAPUJI EDUCATIONAL ASSOCIATION (Regd.)
 BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DAVANAGERE
 AFFILIATED TO VIVEKANANDA TECHNOLOGICAL UNIVERSITY, BELGAM ACCREDITED BY NAAC WITH 'A' GRADE
 RECOGNIZED BY UGC UNDER 2(F)(12) B

Department of Mechanical Engineering
Royal Mech Forum
 Invites you to

Inauguration of Yantrik-2022

Chief Guest : Shri. Chetan G
 Proprietor, Aarna Facade, Davanagere

Guest of Honor : Prof. Y. Vrushabhendrapa
 Director, BIET, Davanagere
 : Dr. Aravind H B
 Principal, BIET, Davanagere

President : Dr. G. Manavendra
 Head, Dept. of Mechanical Engineering

Date: 9th June 2022, Thursday, Time: 10:30 AM.

Venue: Lord Basaveshwara seminar Hall, Dept. of Mechanical Engineering,
 (Placement Cell)

All are Cordially Invited

HOD, Staff & Students
 Department of Mechanical Engineering

YANTRIK 2022 National Level Student Symposium



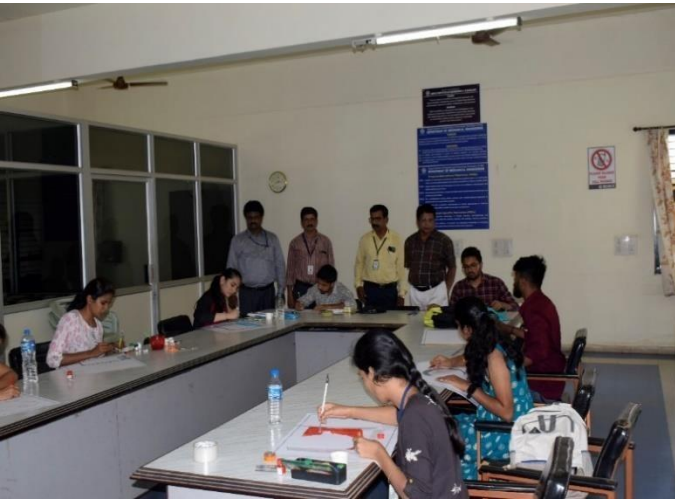
Paper Presentation



Mr. Mechanic



Prize Distributed by Chief Guest. Nithin Jadhav
Assistant Executive Engineer, KRIDL Davanagere



Art

5. Mr. Sunil Rao Managing Director, DMG MORI and Mr. Prashanth Guruprasad Vice-president, National Sales, DMG MORI, Bangalore, he delivered a technical talk on “Emerging trend in Mechanical Engineering” This seminar Mech Forum. HOD Dr. G. Manavendra, Forum co ordinators D.E. Umesh and Mohan T R and about 70 students attended the program. On 20-07-2022



Quiz



Mech Forum Inauguration

2022-23

BAPUJI EDUCATIONAL ASSOCIATION (REGD.)
BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DAVANAGERE
 DEPARTMENT OF MECHANICAL ENGINEERING
Royal Mech Forum Invites you All
Inauguration of Forum Activities
2022-23

Chief Guests: Proud Alumni (1993-97)
 Shri.Yashiraj Kasal
 General Manager & Head, Wipro 3D, Bangalore
 Shri.Premprasad Mirthinti
 Technologist, Edtech Entrepreneur, Soudar
 Ahmedabad
 Shri.Shashikiran Bhat
 General Manager, Fibreco Water Services
 Ahmedabad
 Shri.C.M Basanth Gowda
 Founder & Chief Architect Ivoxynt LLC, Atlanta
 Georgia, USA
 Shri.Suresh Channappa
 Senior Principal Engineer, Broadcom Inc,
 Bangalore

Guest of honor: Prof. Y. Vrushabhendrappa
 Director, BIET Davanagere
 Dr. Aravind H B
 Principal, BIKS Davanagere

President: Dr. G Manavendra
 Head, Dept. of Mechanical engineering

DECEMBER 2nd 2022
 AT 9:15 AM
 VENUE: LORD BASAVESHWARA SEMINAR HALL
ALL ARE CORDIALLY INVITED



One day workshop on Future Technologies in Mechanical Engineering

BAPUJI EDUCATIONAL ASSOCIATION (REGD.)
BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DAVANAGERE
 DEPARTMENT OF MECHANICAL ENGINEERING
ROYAL MECH FORUM
WORKSHOP ON FUTURE TECHNOLOGIES IN MECHANICAL ENGINEERING

Speaker's	Topic	Speaker's	Topic	Speaker's	Topic
	Industrializing Additive Manufacturing		Preparing For The Deep Tech Innovation: A Maker's Perspective		Question and Answer Session
	Optimizing the Microstructure and Mechanical Properties of Titanium Alloys for Aerospace Applications		Emerging Technologies in Water Treatment		Question and Answer Session

On 2nd December 2022
 Venue: Lord Basaveshwara Seminar Hall

ಬಿಬಿಇಟಿಯಲ್ಲಿ 'ರಾಯಲ್ ಮೆಕ್ ಫೋರಂ' ಕಾರ್ಯಕ್ರಮಕ್ಕೆ ಚಾಲನೆ



ದಾವಣಗೆರೆ, ಡಿ. 2- ನಗರದ ಬಾಪೂಜಿ ಇಂಜಿನಿಯರಿಂಗ್ ಮತ್ತು ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯದ ಮೆಕ್ಯಾನಿಕಲ್ ಇಂಜಿನಿಯರಿಂಗ್ ವಿಭಾಗದ ವತಿಯಿಂದ ಕಾಲೇಜಿನ ಒಸನೇಶ್ವರ ಸೆಮಿನಾರ್ ಹಾಲ್‌ನಲ್ಲಿ ಹಮ್ಮಿಕೊಂಡಿದ್ದ 'ರಾಯಲ್ ಮೆಕ್ ಫೋರಂ' ಕಾರ್ಯಕ್ರಮ ನಡೆಯಿತು.

ಮೆಕ್ಯಾನಿಕಲ್ ಇಂಜಿನಿಯರಿಂಗ್ ವಿಭಾಗದ ಮುಖ್ಯಸ್ಥ ಡಾ. ಬಿ. ಮಾನವೇಂದ್ರ ಅಧ್ಯಕ್ಷತೆ ವಹಿಸಿದ್ದರು.

ವಿಶ್ವೇ 3 ಡಿ ಮುಖ್ಯಸ್ಥರೂ, ಕಾಲೇಜಿನ ಹಳೆಯ ವಿದ್ಯಾರ್ಥಿ ಯತಿರಾಜ್ ಕಾಸಲ್, ಪ್ರೇಮ ಪ್ರಸಾದ್ ಮಿರ್ತಿಂಕಿ, ಶಶಿಕಿರಣ ಭಟ್, ಸಿ.ಎಂ. ಒಸಂತಗೌಡ, ಸುರೇಶ್ ಚನ್ನಪ್ಪ, ಪ್ರೊ. ದೇವೇಂದ್ರಪ್ಪ, ಸಂತೋಷ್ ಕುಮಾರ್, ವೋಹನ್ ಟಿ.ಆರ್., ಉಮೇಶ್ ಡಿ. ಇ. ಮತ್ತಿತರಿದ್ದರು. ಉಪಸ್ಥಿತರಿದ್ದರು.



Mech Tribes Reunion after 25 Years Proud alumni (1993-97)

BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DAVANAGERE
 DEPARTMENT OF MECHANICAL ENGINEERING
ROYAL MECH FORUM
5th MECH TRIBES REUNION
 PROUD ALUMNI (1993-97)

Vishveshwarya Statue Inauguration



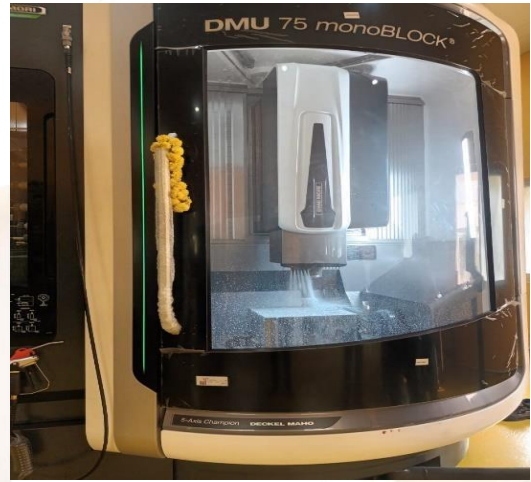
Constitution day celebration



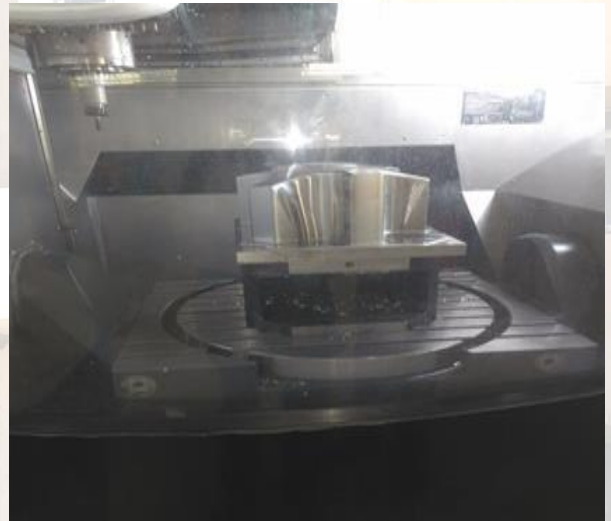
National voter's day celebration Mechanical Department



Skill Development Centre



5-Axis Machine Installed in Skill Development Centre



First Workpiece Finished In 5-Axis Machine



STUDENTS ACTIVITIES

RPL (Royal Mech Premier League)

1. Royal Premier league (RPL) interdepartmental cricket tournament was conducted by ROYAL MECH FORUM, initially league matches were held among the teams. And Final match was held on 30TH May 2022, EC Sparkers v/s Kalashnik ,



Kalashnik cricket team won the Final match



Branch Fest

We had conducted “YANTRIK” the branch fest on 8th of JUNE wherein all the students participated actively in both cultural events and sports.



2. The Above picture explains the what will the status of our Face If the skin is peeled and screwed in the Corners. When the skin is peeled from aliment, we can Nakedly see bondage of meat with the face Cartilage. The arrangement of this muscles adds its Uniqueness & scary look to this Art. This Unique Face painting was first designed by Ronnie Mena From Los Angeles, his Individual style has lots of people in the industry taking note. This precise line work and detailed shading are very impressive for its dreadfulness & Frightening look



*Punith S S, Final year, Mechanical Dept.
Face painting 1st in Davana.*

Student Projects funded by KSCST, Bengaluru during 2021-2022

Sl. No	Title of the project
1	Green recycling of lithium-ion batteries
2	Development and tribological investigations on bamboo fiber reinforced polymer composite filled with sea shell particulates
3	Design and development of automatic waste segregation machine using arduino control system
4	Innovative methods of dyeing of tussar silk yarn and fabric for rural upliftment

4	Design And Development of Automatic Waste Segregation Machine Using Arduino Control System	Ananda Kumar HemanthKumar. Umesh. S Sahil Noorappagol
5	Design and Development of Laser Induced Graphene Sensor and Supercapacitors	Girish P Patil Hrithik R Lingaraj J Saunshi Mahendra Patil
6	AIR - Artificial intelligence rover	Akash C Bharath S A Kavana J C Akash R
7	Remote controlled UGAV for waste disposal	Ankith S Amaragol Arshiya R ChandanKumar Koushik R

List of Projects Displayed in In-house Project Exhibition

Sl.No	Title of the Project	Name of the Students
1	Development and Tribological Investigations on Bamboo Reinforced Polymer Composite	Fakkiresh Mote Shivakumar K Mohan Singh L Madhu B
2	Investigation of Mechanical Properties of Jute Reinforced Polymer Composite with Coupling Agent	Jaiprakash M Mohammad Sab Raghavendra BC Sanjay R
3	Prediction of Battery Life Cycle to Exhibit Capacity Degradation Using Machine Learning	Manoj Kumar. T Pranav Kulkarni Rohan .H Sagar. T. A

Placement Details

Sl. No.	Company	No.
1	TCS, Bengaluru	05
2	Cognizant, Bengaluru	01
3	Tecnicas Reunidas	07



HOD and Faculty of Mechanical
Department congratulate the above students

Anveshana Regional Award

2021-2022



Bhumika G S & Team has participated in Anveshana 2022 Science & Engineering Fair Virtually, between 25th Feb to 5th March, Hubli.

Students participated in ICT Autodesk Fusion 360 Design Now Event





Participated in KPIT Sparkle innovation contest

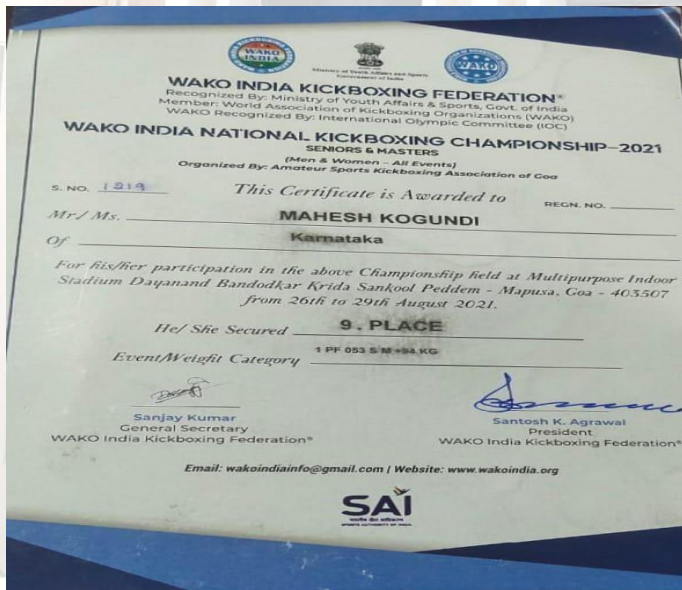


Manoj S K and Puneeth K A participated in the 3rd South India project Exhibition



Manoj Kumar V and Amruth J N 3rd runner-up in Desing & Innovation Clinic 2022

Student Participated In Various Sports



Secured 9th Place in WAKO INDIA National Kickboxing Championship

Annual Sports & Games 2022



Sharavana A.G Student from 5rd semester had participated in central VTU football tournament and won the game which was held in BIET.



Annual Sports & Games 2022



प्रमाण - पत्र 'बी'
CERTIFICATE 'B'

सं. No.	KA20SDA740110	रैंक Rank	LCPL
नाम Name	S R JEEVAN	सुपुत्र / सुपुत्री Son/Daughter of	RAJAPPA S B
यूनिट Unit	3 KAR ENGR COY NCC, DAVANGERE	निधि Date of Birth	31-May-2002

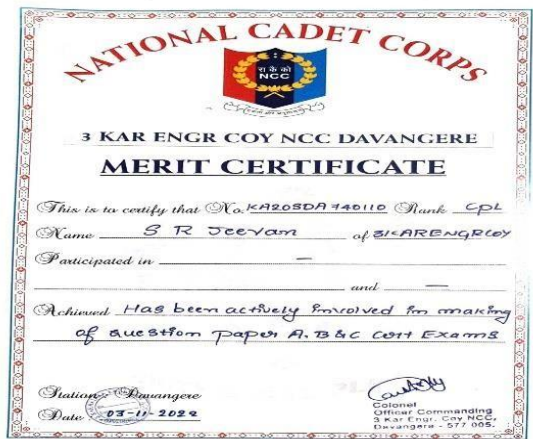
राष्ट्रीय कैडेट फोर निदेशानुय कर्नाटक ब गोवा
NCC Directorate Karnataka & Goa
प्रमाणित किया जाता है कि ऊपरलिखित कैडेट ने रथा मंत्रालय, भारत सरकार के प्राधिकार के अधीन सन् 20..... में हुई प्रमाणपत्र 'बी' परीक्षा..... श्रेणी में पास कर ली है।
This is to certify that the above mentioned cadet has passed the certificate 'B' Examination in B..... Grade held in 20..... under the authority of Ministry of Defence, Government of India.

क्र. सं Ser. No. KAR&GOA/B CERT/2021-22/4817
स्थान Place BANGALORE
दिनांक Date
ग्रुप कमान्डर Group Commander
Colonel Group Commander
NCC Gp HQ Ballari.

grade in B certificate exam held at Stadium Ground, Davanagere in February 2022



Drill and GoH Competition for RDC Camp held at toranagallu from 1 June 2022 to 10 July 2022



Got merit certificate for exceptional participation and performance in NCC

Cultural Event



V M Arpitha 1st place in Anthyakshari



5th sem, Aashish R Netraker in in the competition of mobile photography



Vikas A Vastrad 1st place in Anthyakshari



Students from 5rd semester Arpitha V.M and Arshiya Anjum had participated in DAVANA



5th sem V M Arpithas and 3rd place in Photo Corner



Students from 5th semester Aniruddha N and Syed Shaheed Aqthar had participated in DAVANA 2022 (Anthyakshari Hindi and Collage making competition) and had bagged 1st place in both the events



Students from 7th semester had participated in the department cultural event Mech Mahotsav



Student from 5th semester Aashish R Netraker had participated in the department cultural event Mech Mahotsav and had participated in the solo ramp walk of Michael Jackson



Javeed MR had participated in the department cultural event Mech Mahotsav and got 1st place in face off at DAVANA

Art Gallery



Bhumika G S 7th sem, Mechanical Dept



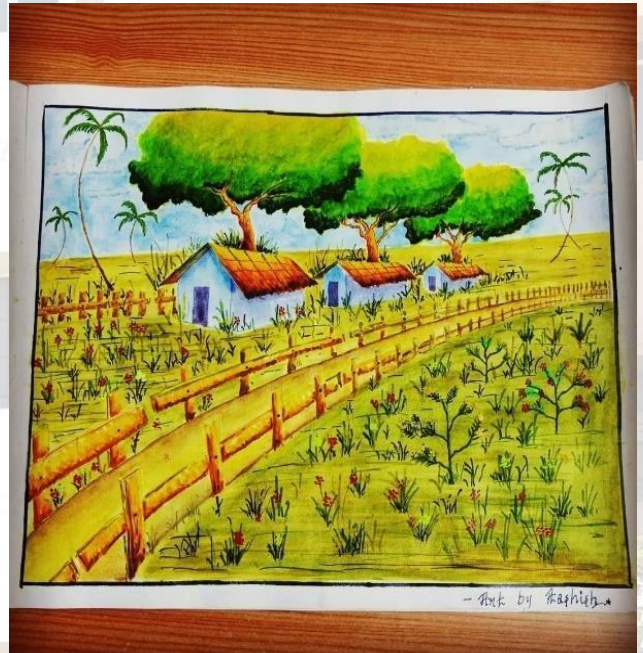
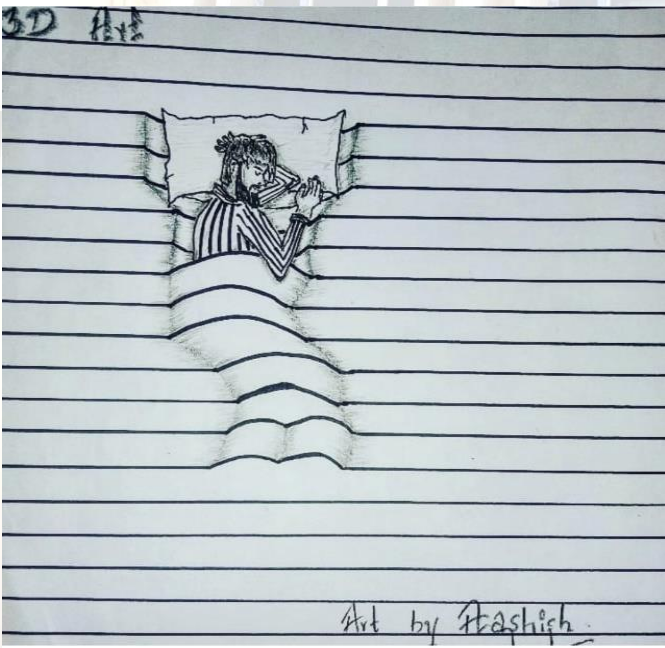
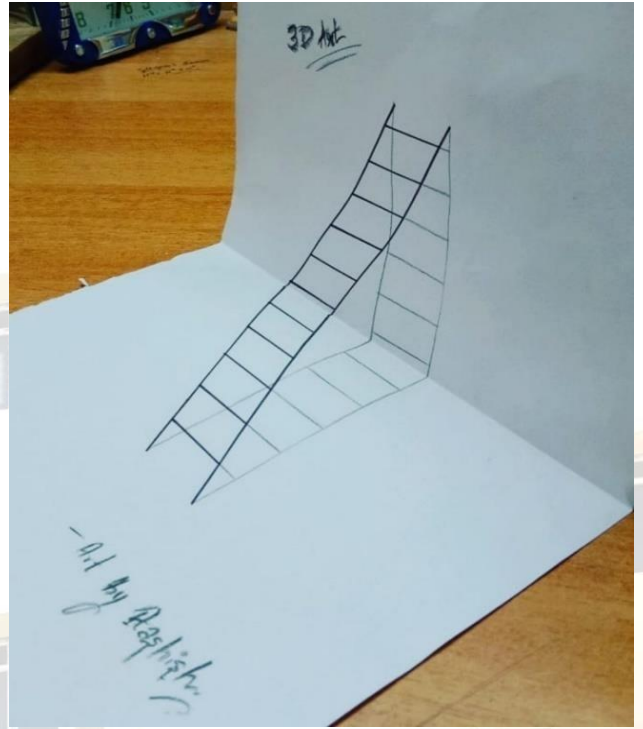
Lekha S J Keluth 7th sem, Mechanical Dept



Venkatesh GT 7th sem, Mechanical Dept



Nitish M K 7th sem, Mechanical Dept



Art by Aashish 5th Sem