



Bapuji Educational Association®

BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY

Affiliated to VTU, Belgaum. Approved by AICTE, New Delhi
Accredited by NAAC with 'A' Grade,
Recognized by UGC under 2(f) and 12(b)



BIOLIT

A Biannual Newsletter of Biotechnology Department

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Mr. Vinay Patil, IV Sem

Mr. Ansh B, IV Sem

Alumni Member

Miss. Chaitra



Quote

"Don't limit a child to your own learning, for she was born in another time"

- Rabindranath Tagore

Content

- ✓ Departmental Activities
- ✓ Student Achievements / Activities
- ✓ Faculty Achievements / Activities
- ✓ Articles / News



From the HOD's Desk

Greeting!! Indeed it gives me immense pleasure to share with you all readers that our department has been through a range of activities and accomplishments. Despite the state-of-the-art infrastructure with well-developed laboratories, the Department has well qualified and dedicated faculty to impart quality engineering education through sound theoretical knowledge, hands on laboratory, exposing students to recent technologies by visiting industries and expert talks as well as instilling communication skills through Inter and intra departmental activities. This Newsletter is aimed at fostering current and inclusive research and industry partners, our alumni and friends, as well as department faculty and assistant staff members, past and present. We aim to keep our stakeholders updated on our teaching and research activities and advances, as well as student and academic achievements and showcase the best. We very much encourage all our stakeholders like members, students, alumni, parents and partners to keep in touch and share their news, their time and experience in the department, their career achievements and/or personal highlights with us and look forward for kind patronage to our newsletter in the future editions too. I thank my team for their constant cooperation and support. We look forward for a fruitful year ahead.

Thank you all...

Vision of the Department

- To impart quality education for translating knowledge to the widest domains and create distinctive knowledge assets
- To contribute in crafting a pool of young engineers to meet the demands of industry and society, through excellence in technical education and research.

Mission of the Department

- To be an educational center of international excellence in technical learning to help every learner to be successful.
- To emphasize its foundational heritage in engineering education, facilitate interdisciplinary learning, foster research and produce graduates who are technologically astute, think critically and demonstrate proficiency.
- To empower the students with entrepreneurial and leadership competencies to unleash their potential towards nation building.
- To inculcate an attitude of ethical values and civic responsibilities that help learners to lead lives of personal integrity.

Choice Based Credit System(CBCS)

CHOICE BASED CREDIT SYSTEM (CBCS):

The CBCS provides an opportunity for the students to choose courses from the prescribed courses comprising core, elective/minor or skill based courses. The courses can be evaluated following the grading system, which is considered to be better than the conventional marks system. Therefore, it is necessary to introduce uniform grading system in the entire higher education in India. This will benefit the students to move across institutions within India to begin with and across countries. The uniform grading system will also enable potential employers in assessing the performance of the candidates. In order to bring uniformity in evaluation system and computation of the Cumulative Grade Point Average (CGPA) based on student's performance in examinations, the UGC has formulated the guidelines to be followed.

The choice based credit system not only offers opportunities and avenues to learn core subjects but also exploring additional avenues of learning beyond the core subjects for holistic development of an individual. The CBCS will undoubtedly facilitate us benchmark our courses with best international academic practices.

Advantages of the choice based credit system:

- Shift in focus from the teacher-centric to student-centric education.
- Student may undertake as many credits as they can cope with (without repeating all courses in a given semester if they fail in one/more course)

Department of Biotechnology(Jan-June 2022)

ACTIVITY DETAILS FROM JANUARY TO JUNE 2022 1. Jointly with IS department has Organized, "PYTHON ENOVI – 2022" a technical presentation competition for 3rd sem students on 23rd Feb, 2022. Prize winners are awarded with Memento and certificates



The Department of Biotechnology organized a one-week-long workshop on "Scope of IPR, Entrepreneurship & Bioreactor Design in Biotechnology" from 17th to 23rd May 2022.

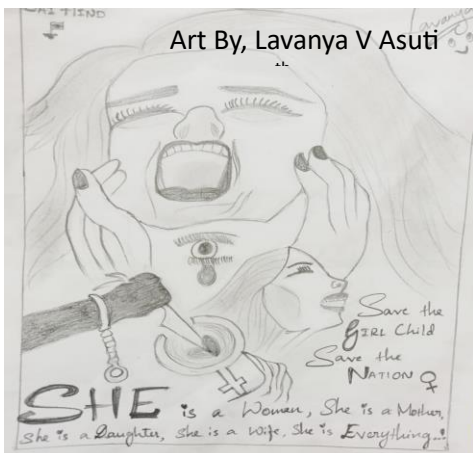




As a part of weeklong workshop on 17th May 2022, visited to Samson Distilleries, Duggavatti and Aeroponics Polyhouse.



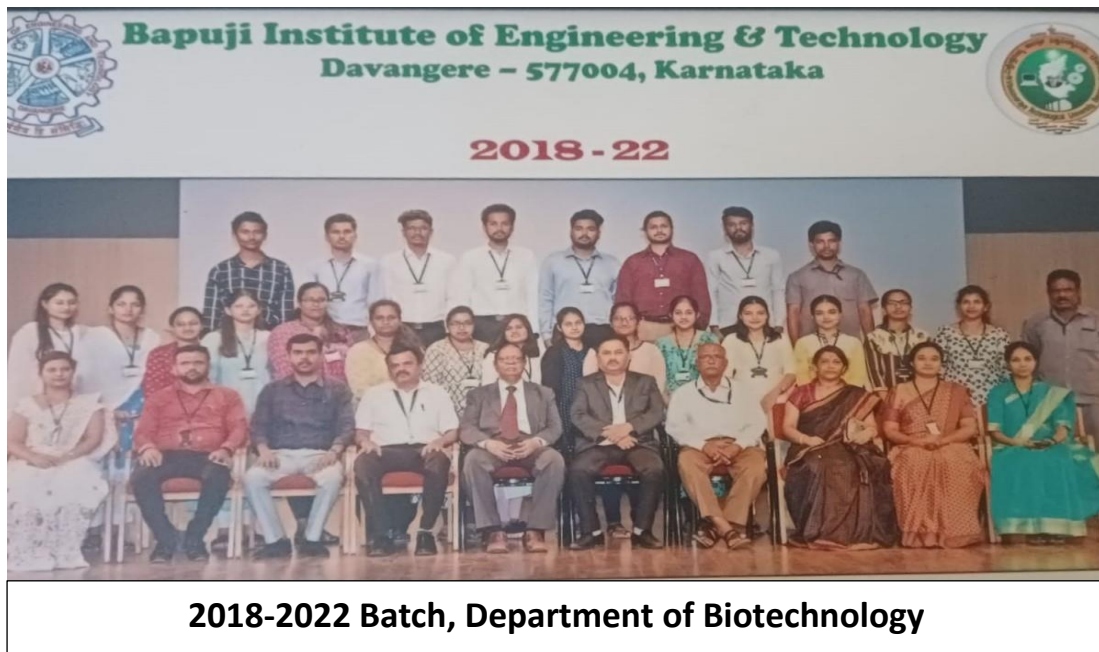
The Department has organized Alumni Meet on 07th May, 2022. Alumni from across the country Participated and interacted with the Students on Scope of Biotechnology and Career Opportunities



Did You Know You share your birthday with 19 million people?
 On average, a person will share a birthday with 19 million other people from a population of over 7 billion. If you were born on the least common day of the year, you would still share the same birthday as 18 million people.



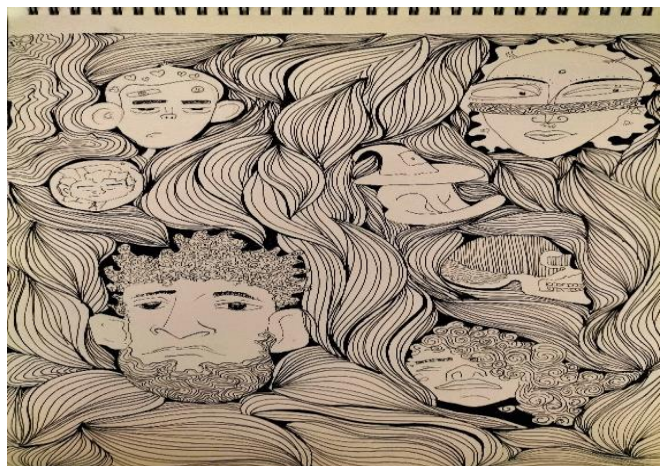
Brain Storm – A platform for debate competition amongst all semester students, the department in the interest of students conducts personality development and communication skills related activities during academic the year 2022



ART BY STUDENTS



Art By, Yashaswini
7th Sem



Art By, Yashaswini
7th Sem

Grape's light on fire in the microwave.

Back in 2011, a physicist at the University of Sydney went viral after he placed a grape in the microwave and filmed the [fiery aftermath](#). And oddly enough, scientists couldn't explain the phenomenon until quite recently. A

March 2019 study published in *Proceedings of the National Academy of Sciences* reported that the fruity fireball occurs as a result of the loose electrons and ions that cluster to [form plasma when grapes get hot](#).

“A Happy Life May Not Be a Meaningful Life..”

Tasks that seem mundane, or even difficult, can bring a sense of meaning over time. Life is never made unbearable by circumstances, but only by lack of meaning and purpose.” For most people, feeling happy and finding life meaningful are both important and related goals. But do happiness and meaning always go together? It seems unlikely, given that many of the things that we regularly choose to do – from running marathons to raising children – are unlikely to increase our day-to-day happiness. Recent research suggests that while happiness and a sense of meaning often overlap, they also diverge in important and surprising ways.





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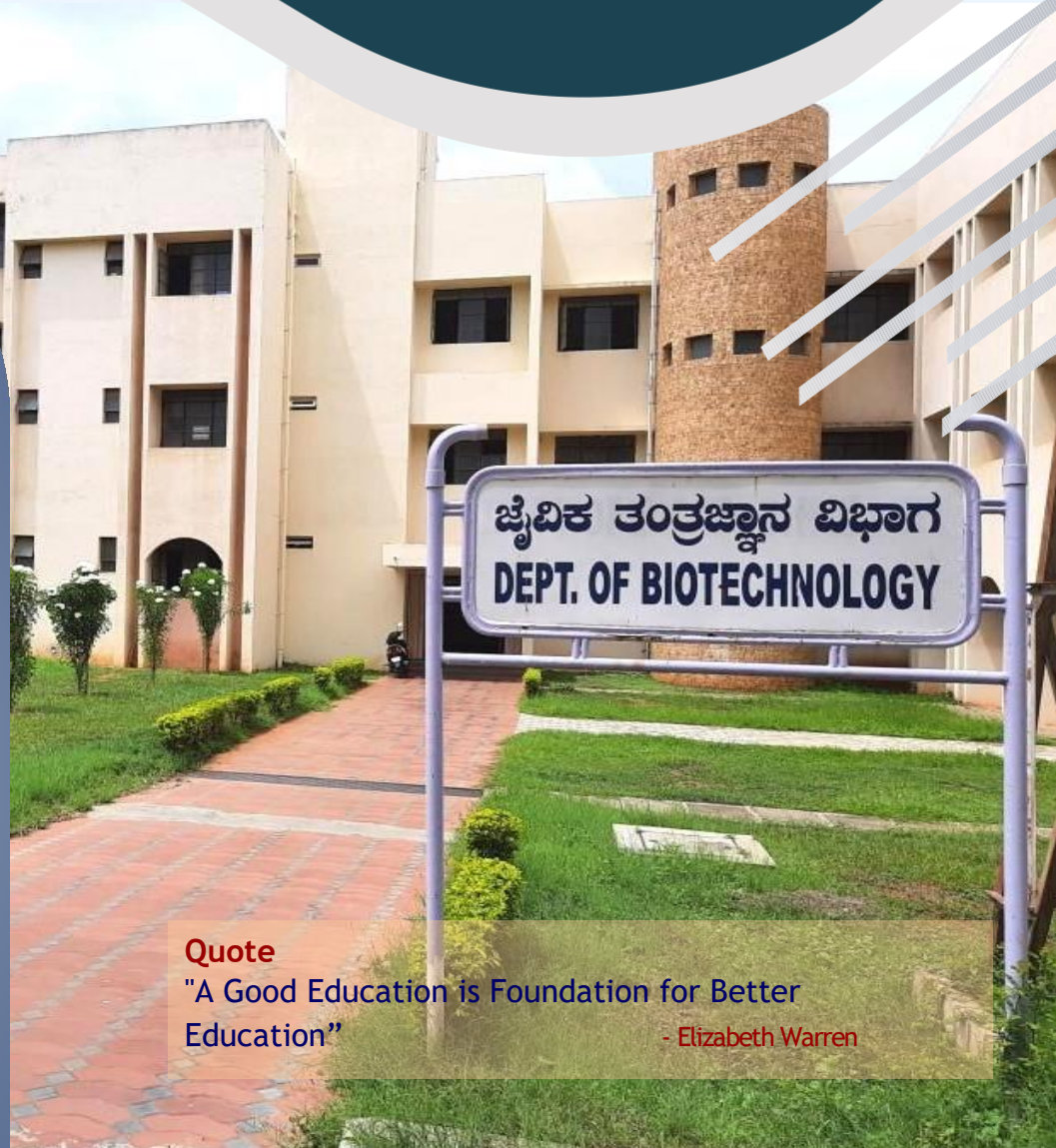
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Mr. Anesh B, V Sem

Alumni Member

Miss Chaitra



Quote

"A Good Education is Foundation for Better Education"

- Elizabeth Warren

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Chairman/Editor

Dept. of Biotechnology Engineering

P.O. Box. No. 325, Shamanur Road, Davangere



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Department of Biotechnology(June-Dec 2022)

ACTIVITY DETAILS FROM JULY TO DECEMBER 2022

1. **Dr. Ajith Kumar** Vasudevan Director and Head of Scientific writing, GSK Global Capability center, Bengaluru, delivered talk on "Clinical Research & Development: Career Opportunities In India" on 22nd July 2022.
2. **Dr. Gautham S Annappa** Director and Head of Scientific writing, GSK Global Capability center, Bengaluru on 22nd July 2022.
3. **Mr. Venkatesh Makam** Director and Head of Scientific writing, GSK Global Capability center, Bengaluru, delivered talk on "Clinical Trial Protocol and Submission for Drug Approval" on 22nd July 2022.
4. **Dr Krupa Shivamurthy** senior director Global Medical Lead, Heamatology, CSL Bhering delivered talk on "Gene Therapy" to students of Biotechnology and Chemical Engineering" on 28th Nov, 2022. Invited talk was organized in association with ISTE, IQAC, BIET and IE (I).



5. **Dr. Veena Kumara Adi , Mrs. Bilwashri H and Shekharappa** has accompanied with 5th Sem students for attending "Krushu Mela" held at Bagalkot during 29th and 30th December 2022.



6. Organized Alumni meet on 24th December 2022 to interact with students regarding entrepreneurship opportunities in Biotechnology

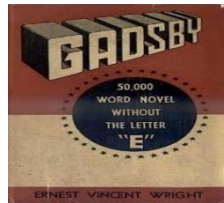


7. Students of 3rd Sem along with the faculties visited “Amrutha organic Fertilizers” on 2nd Nov, 2022.



Did you Know that The 1939 novel *Gadsby* is the longest book ever published that doesn't contain the letter 'e.' ?

Back in 1939, American author **Ernest Vincent Wright** published *Gadsby*, a 50,000-word novel that doesn't use the letter 'e' once. What's more, it's not the only novel that ditched the letter. Author **Georges Perec** also wrote the French-language book *La Disparition* without the letter 'e' in 1969. That's even more astounding when you consider that 'e' is the most commonly used letter in the English (and French!) language.



8. **Dr. Uma M V**, former HOD, Dept. Of BT, PESIT College delivered talk on Genetic Engineering & Applications during 3rd – 4th Nov, 2022.



9. **Dr Vinay Kumar Jain** has demonstrated the techniques of air quality monitoring system on 5th Nov, 2022



10. Dr. Amitha Rani, Senior Scientist, NAL, Bangalore delivered talk on Bio mimics during 7th Nov – 8th Nov, 2022.



. Did You Know Rabbits eat their feces.?

After eating them, they will digest it again like normal food. Rabbits have two kinds of droppings, little black round ones and softer black ones known as cecotropes. The cecotrope droppings are the ones that they eat and they do this so they can re-absorb any undigested nutrients from their food. This process is normally done once a day.

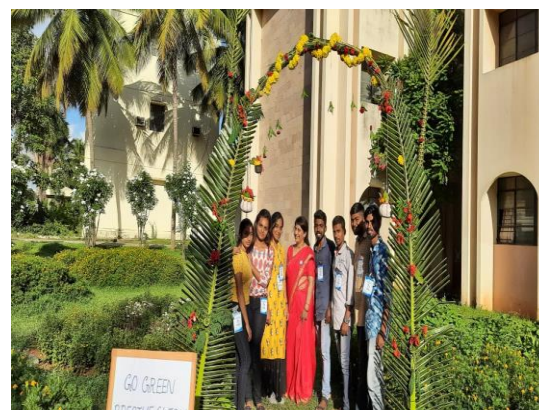
STUDENT ACHIEVEMENTS

- Annesha B (4BD20BT002) stood second place in Installation competition(VTU Fest) held by B.M.S college of engineering, Bangalore.
 - Annesha B (4BD20BT002) secured DAVANA KUVARA 2022 Award, BIET Davangere.
 - Annesha B (4BD20BT002) stood SECOND place in QUIZ competition, held by Davanagere University, Davanagere.
 - Davanagere.
 - Annesha B (4BD20BT002) stood FIRST place in MAD-ADS competition, held by BIET, Davanagere.
 - Annesha B (4BD20BT002) stood FIRST place in ARCH-MAKING competition, held by BIET, Davanagere.
 - Annesha B (4BD20BT002) stood SECOND place in PYTHON presentation competition, held by BIET, Davanagere.
 - Nayana S N (4BD20BT011) stood FIRST place in ELOCATION competition, held by Department of Textile in association with NSS, ISTE ,YRCW and IEI, BIET Davanagere.
 - Nayana S N (4BD20BT011) stood FIRST place in ESSAY competition, held by Davanagere University, Davanagere.
 - Nayana S N (4BD20BT011) stood FIRST place in MAD-ADS competition, held by BIET, Davanagere.
 - Nayana S N (4BD20BT011) stood FIRST place in ARCH-MAKING competition, held by BIET, Davanagere.
 - Nayana S N (4BD20BT011) stood FIRST place in ANTHYAKSHARI competition, held by BIET, Davanagere.
-
- VINAY SHIVANAGOUDA PATIL(4BD20BT022) stood FIRST place in MAD- ADS competition, held by BIET, Davanagere.
 - VINAY SHIVANAGOUDA PATIL(4BD20BT022) stood SECOND place in EASSY competition, held by Department of Textile in association with NSS, ISTE ,YRCW and IEI, BIET Davanagere.
 - VINAY SHIVANAGOUDA PATIL(4BD20BT022) stood SECOND place in FILMY FUNDA competition, held by Department of Textile, BIET, Davangere.
 - VINAY SHIVANAGOUDA PATIL(4BD20BT022) stood FIRST place in PYTHON presentation competition, held by BIET, Davanagere.
 - VINAY SHIVANAGOUDA PATIL(4BD20BT022) successfully completed workshop on Entrepreneurship and Bioreactor design in Biotechnology held by Department of Biotechnology, BIET Davanagere.
 - Ankitha S (4BD20BT001) stood consolation place in EASSY competition, held by Davanagere University, Davanagere.
 - Anup M (4BD20BT003) stood SECOND place in QUIZ competition, held by Davanagere University, Davanagere.
 - Anup M (4BD20BT003) stood SECOND place in FILMY FUNDA competition, held by Department of Textile, BIET, Davangere.

- Anup M (4BD20BT003) stood FIRST place in MAD-ADS competition, held by BIET, Davanagere.
- Anup M (4BD20BT003) stood FIRST place in ARCH-MAKING competition, held by BIET, Davanagere.
- Anup M (4BD20BT003) stood THIRD place in GROUP DANCE competition, held by BIET, Davanagere.
- Vishwanaik H (4BD20BT023) stood SECOND place in QUIZ competition, held by Davanagere University, Davanagere.
- Vishwanaik H (4BD20BT023) stood FIRST place in ARCH-MAKING competition, held by BIET, Davanagere.
- Vishwanaik H (4BD20BT023) stood FIRST place in MAD-ADS competition, held by BIET, Davanagere.
- Saathvi C S (4BD20BT018) stood THIRD place in EASSY competition, held by Department of Textile in association with NSS, ISTE ,YRCW and IEI, BIET Davanagere.
- Saathvi C S (4BD20BT018) stood THIRD place in GROUP DANCE competition, held by BIET, Davanagere.
- Priya S (4BD20BT015) stood SECOND place in Quiz competition, held by Department of Mechanical Engineering, BIET, Davanagere.
- Lavanya V Asuti(4BD20BT010) stood FIRST place in MAD-ADS competition, held by BIET, Davanagere.
- Lavanya V Asuti(4BD20BT010) stood FIRST place in ELOCATION competition, held by Department of Textile in association with NSS, ISTE ,YRCW and IEI, BIET Davanagere.
- Lavanya V Asuti(4BD20BT010) stood FIRST place in ARCH-MAKING competition, held by BIET, Davanagere.
- Daphny Valencia (4BD20BT010) stood THIRD place in GROUP DANCE competition, held by BIET, Davanagere
- ASHWINI V (4BD20BT005) stood second place in Installation competition(VTU Fest) held by B.M.S college of engineering, Bangalore.

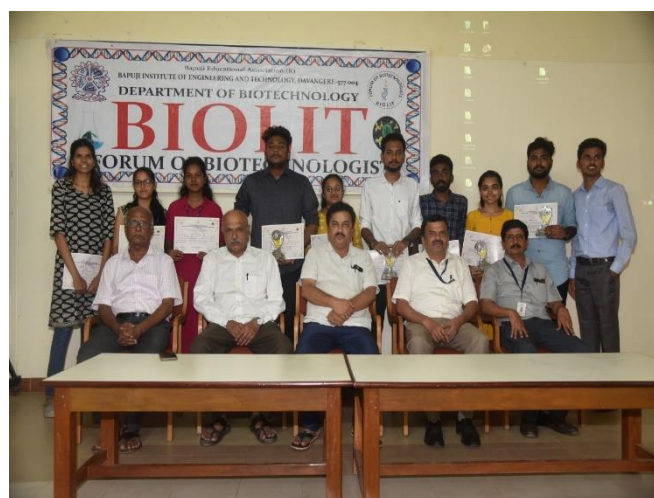


On Left- Receiving Award in DAVANA-2022(JULY-2022), On Right- Bharatanatyam By Sinchana(8th Sem, BT) On DAVANA-2022



Essay and Quiz Competition Winners at Davangere University (AUG, 2022)

Arch Making Competition at DAVANA-2022 (JULY-2022)



All DAVANA-2022 Events winners in one frame

Group Dance Team of DAVANA-2022(JULY-2022)

RESEARCH PAPERS

Sl No.	Author Names	Title	Year of Publication	Impact factor	Name of the Journal
1	B. Suresh, J K PrasanaKumar	Synthesis and Characterization of Mango wood Nanocellulose fibres	Aug, 2022		Asian Journal of Chemical Sciences
2	Suresh Basvarrajappa,	Green synthesis of nanocellulose fibers from ragi stalk and its characterization	Sep, 2022		Asian Journal of Green Chemistry
3	Gana S V, Dr. G P Desai	The impact of Na ₂ SO ₄ and MgSO ₄ as electrolyte additives on, The efficiency and cycle life of lead acid batteries	Sep, 2022	7.529	International Research Journal of Engineering and Technology (IRJET)

4	Dr. B. Suresh	Synthesis and Morphological Studies of Nanocellulose Fibers from Lignocellulosic Biomass in Ionic Liquid	Nov, 2022		Asian Journal of Chemistry
5	Dr. Veena Kumara Adi	Development of sustainable microbial coalesce bio-cement mortar blended with powdered seashells	Jan-23	0.38	The Indian Concrete Journal

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ART BY STUDENTS



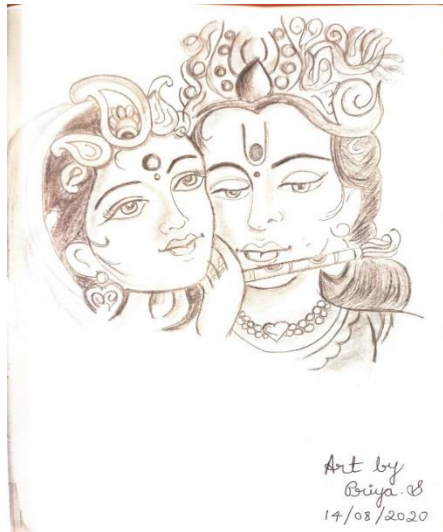
Art By, Yashaswini (8th Sem)



Art By, Yashaswini (8th Sem)



Art By, Priya S (6th Sem)



Art by
Priya S
14/08/2020

Art By, Priya S (6th Sem)

ಮಲೆನಾಡಿನ ಗೋಳು

ಹಚ್ಚಿಸಿರಿನ ಕಾನನದಲ್ಲಿ ಬಳುಕುತ್ತಿರುವ ಮಲೆನಾಡು,
ಪ್ರಾಣಿ-ಪಕ್ಷಿಗಳಿಗೆ ಮಲೆನಾಡೇ ನೆಲೆಬೀಡು,
ಮನುಜ ಪಾದ ಸ್ಪರ್ಶವಿಲ್ಲದ ಮಲೆನಾಡು,
ಈಗ ಅಲ್ಲಿ ಅವನದ್ದೇ ಕಾರುಬಾರು,
ಹೇ, ಮಲೆನಾಡು ನಿನಗಿದ್ಯಾವ ಪಾಡು.



ಪ್ಲಾಸ್ಟಿಕ್‌ನ ಅರಿವೆ ಇಲ್ಲದ ಮಲೆನಾಡು,
ಈಗ ಮಲೆನಾಡು ಪ್ಲಾಸ್ಟಿಕ್‌ನ ನೆಲೆಬೀಡು,
ತಡೆಯುವುದೇ ಪ್ರಕೃತಿ ಈ ಮನುಜನ ಕಾರುಬಾರು,
ಹೇ, ಮಲೆನಾಡು ನಿನಗಿದ್ಯಾವ ಪಾಡು.



ಮೃಗ-ಖಗಗಳ ಇಂಪಾದ ಧನಿಗೆ ತಲೆದೂಗುತ್ತಿದ್ದ ಮಲೆನಾಡು,
ಅಲ್ಲಿ ಈಗ ವಾಹನಗಳಲ್ಲದೇ ದರ್ಬಾರು,
ಕೇಳುವವರಿಲ್ಲ ಅಲ್ಲಿನ ಜೀವಗಳ ಪಾಡು,
ಹೇ, ಮಲೆನಾಡು ನಿನಗಿದ್ಯಾವ ಪಾಡು.

ಸೇರಿದೆ ನಮ್ಮ ಮಲೆನಾಡು ಯುನೇಸ್ಕೋ ಪಾರಂಪರಿಕ ತಾಣಗಳ ಗೂಡು,
ಉಳಿಸಬೇಕಾಗಿದೆ ಅದರ ಜೀವವೈವಿದ್ಯತೆಯ ಬೇರು,
ಉಳಿಸುವುದು ಬರೀ ಸಂಘ-ಸಂಸ್ಥೆಗಳಲ್ಲ, ಅದಕ್ಕೆ ಸೇರಬೇಕಾಗಿದೆ ಜನರ ಪಾಲು,
ಆಗ ಮಾತ್ರ ಮಲೆನಾಡು ಪಾಡು ಸುಂದರ.

ಅಣ್ಣೇಶ. ಬಿ