



NEWS LETTER



**DON BOSCO INSTITUTE OF TECHNOLOGY
(NAAC ACCREDITED INSTITUTION)**

**DEPARTMENT OF ELECTRONICS AND
COMMUNICATION ENGINEERING**

(Accredited by NBA & permanently affiliated to VTU)

**VOLUME-4 ISSUE-1
JAN-JUNE 2021-22**





I feel happy to see the achievements of students and staff from the Dept.of Electronics and Communication Engineering in NEWSLETTER of DBIT. I congratulate each and everyone who were involved in upgrading the standards of ECE..

Sri B. Bylappa,President, WET

Congratulations to the HOD , faculties and students of Dept of Electronics and Communication Engineering who are performing exceedingly well in academics as well as extra curricular activities. I wish great success and bring Laurels to the department as well as the institute



Sri B.Manjunath, Executive Director, DBIT



This issue will give you glimpses of the achievements in the academic and research areas, alumni contribution and corporate relations.

Sri Raghav Bylappa, Secretary WET

DEAR DR.A.N MAHESHWARAPPA, YOU AND YOUR COLLEAGUES ARE TO BE CONGRATULATED FOR THE ENDEAVOURS IN BRINGING UP THE BENCH MARK FOR THE QUALITY OF THE DEPARTMENT BY ORGANISING MANY STUDENT DEVELOPMENT ORIENTED ACTIVITIES.MY HEARTLY BEST WISHES TO ECE " NEWSLETTER".



DR.HEMADRI NAIDU T, PRINCIPAL, DBIT

ADVISORY BOARD



Dr. A.N.Maheshwarappa

**Professor & HOD
Dept. of Electronics and Communication, DBIT.**

I am happy to note that Department of Electronics & communication Engineering is releasing its News Letter for the current academic year 2021-22.

The department has well equipped laboratories and software tools like CADENCE, MATLAB, SIMULINK, MULTISIM, PSIM, XILINX, NSTOOL etc. Faculty members are engaged in research work and publications and inspire the students to develop their technical skills and inculcate the spirit of team work in them.

Internships, Industrial Tours, Technical Workshops, Soft Skill training programs are arranged regularly. Electronica Forum helps the students to arrange the various programs in the Department. Events like Technical Paper Presentation, Technical Quiz, Project Exhibition are conducted. Students are encouraged to pursue higher education a motivated for competative exams. About 90% of eligible students are placed in various reputed multi national companies.

EDITORIAL BOARD



Prof. Mahadevi.S.Manur

Assistant Professor, ECE, DBIT

A very warm welcome to all the readership of ECE department

I extend hearty congratulations to all the students for your Academic and Extra curricular achievements. It also highlights all the technical and extra-curricular achievements of the students, staff achievements and the events organized by the Department of Electronics and Communication Engineering at DBIT. The Editorial Team is indebted to its contributors for making a content rich newsletter with topics of great interest.

The best way to predict your future is to create it. Wish you all a great success.

STUDENT CO-ORDINATORS



RAKSHITHA S HIEMATH
1DB20EC068



ROHITH H
1DB20EC070



SYED SAUD UR REHMAN
1DB20EC087



ZAIBA KHANUM
1DB20EC101

VISION of DBIT

To be a center of excellence to transform young minds in technical and management education fostering innovation and entrepreneurial skills with ethical, environmental and societal responsibility.

VISION OF ECE

To nurture and disseminate the body of knowledge in the field of electronics and communication engineering along with the ethical values to serve the society globally.

MISSION OF DBIT

M1:To impart quality education in order to meet the needs of industry and society.

M2:To collaborate with academia, industry and research institutes to strengthen teaching and learning process.

M3:To promote equitable and harmonious development of students to work in teams.

M4:To imbibe lifelong learning skills and entrepreneurial skills exhibiting leadership.

MISSION OF ECE

M1:To impart knowledge through teaching learning process that builds strong concepts in Electronics and Communication Engineering.

M2:To inculcate technical, professional, managerial and leadership skills.

M3:To nurture students to provide sustainable solutions keeping environmental considerations and ethical practices.

PROGRAMME EDUCATIONAL OBJECTIVES (PEO'S)

PEO1: Graduates shall be able to employ the acquired engineering knowledge for technological development and management.

PEO2: Graduates shall be able to exhibit Life-long Learning acquired through specialized technical training, higher education and Professional activities.

PEO3: Graduates shall be able to solve engineering issues from a broader social perspective for contributing to the needs of the society.

PROGRAMME SPECIFIC OUTCOMES (PSO'S)

PSO1: Ability to analyze and design electronic components and subsystems in the areas of communication and signal processing.

PSO2: Ability to design embedded systems and VLSI circuits to realize products for societal needs using relevant tools and technologies.

PSO3: To inculcate managerial skills with ethical and human values for a sustainable society.

MAJOR AREAS OF RESEARCH

- Image Coding – Image compression using HVS models**
- Secure Communication – Design of Hardware efficient Secure communication systems**
- Speech Recognition – Audio-visual speech recognition**
- Bio-signal Analysis – Analysis of epileptic spikes in EEG signals etc.**
- Filter banks/Multi-wavelets – Theory & Construction**
- Wireless LAN, Mesh Networks, Sensor Networks – QoS, Security, Cross-layer design, Localization**
- Semiconductor Device Modeling – quantum modeling of nanoscale MOSFETs**

ACADEMIC RESULTS OF 2021-22

**DEAR STUDENTS ,
WE ARE HAPPY TO ANNOUNCE THE RESULTS
FOR THIS 2021-22 ACADEMICS SEMESTERS
FOR ALL THE ODD SEMESTERS OF OUR
DEPARTMENT**



SEMESTER	%RESULT
7	89%
5	88%
3	43%

DEPT. OF ECE

8TH SEM TOPPERS (AY 2021-22)

YASHODHA D S
1DB17EC142
93%



ANKITA RANI
1DB17EC008
92%



RANJITHA R
1DB17EC095
92%



RAMYASHREE C V
1DB17EC094
91%



CHARAN BABU M
1DB17EC023
90%



KAVYA L
1DB17EC047
90%



MANOJ G M
1DB17EC064
90%



JUVERIYA TALLATH
1DB17EC041
90%



MANASA B
1DB17EC061
90%



KISHORE H
1DB17EC050
90%



NAYANA M N
1DB17EC073
90%



DEPT. OF ECE

7TH SEM TOPPERS (AY 2021-22)

PAVAN N
1DB18EC089
89.87%



MANASI R.S
1DB18EC065
89.12%



GURUPRASAD G
1DB18EC037
88.50%



NISHA SHREE S
1DB18EC083
88%



KEERTHANA K
1DB18EC055
88%



PRAVEEN P
1DB18EC098
87.37%



DEPT. OF ECE

5TH SEM TOPPERS (AY 2021-22)



S JAYANTH
1DB19EC014
91.56%



NUTHAN Y J
1DB19EC087
91%



BRUNDA R
1DB19EC024
90.11%



HARSHITHA P
1DB19EC048
88.78%



SATHYA R
1DB19EC115
88.78%



BHASKAR M
1DB19EC020
87.56%

DEPT. OF ECE

3RD SEM TOPPERS (AY 2021-22)



MAHESH K
1DB20EC048
89.22%



SYED SAUD UR REHMAN
1DB20EC087
88%



RAKSHITHA S HIREMATH
1DB20EC068
86%



ZAIBA KHANUM
1DB20EC101
83.33%



DEVESH KUMAR
1DB20EC026
82.56%

EVENTS ORGANISED



The department of Electronics and Communication inaugurated the new Research and Development lab along with VGST for all the Research scholars and the students of our department, and the facilities can be availed across all the departments of our institute. The inauguration was carried out by our respected principal Dr. Hemadri Naidu along with Dr. Maheswarappa, Head of the department and Dr. Somashekhar, Head of placements.



EVENTS ORGANISED



The department of Electronics and Communication celebrated the Women's day on March 8th 2022. All the teaching and non-teaching women staff were highly encouraged and their contributions highlighted by our beloved HOD sir.



The department of Electronics and Communication highly appreciates our Alumini's who actively participate and encourage and motivate our present students in realizing and move towards their goals. Alumini meeting are conducted with coordinators in the presence of HOD.

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY
Indian Institute of Science Campus, Bengaluru – 560 012
Website: www.ksbst.org.in || Email: spp@ksbst.org.in || Tel: 080-2334
1652,2334 8848/49/40

45th series of Student Project Programme (SPP): 2021-22
List of Student Project Proposals Approved for Sponsorship

PROJECT REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
45S_BE_0860	PORTABLE 3D SCANNER	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Ms. BHAGYA P	Mr. RANJAN P Mr. R PRAJWAL GOWDA Mr. PATRICK BRUNO Mr. SUHAS B P
45S_BE_1141	ASSISTIVE COMMUNICATION SYSTEM AMONG DEAF, DUMB AND BLIND	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. TEJASWINI M L	Mr. SHIVARAJ P Mr. SHIVAPRASAD G Mr. P S SHARANA BASAVA
45S_BE_1150	EARLY FLOOD WARNING AND WATER QUALITY DETECTION USING IOT	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Ms. BABITHA S Dr. RAJASHEKHARGOUDA C. PATIL	Ms. NITHYASHREE R Ms. MEGHANA G Ms. NEHA PATIL Ms. SATHYA K
45S_BE_1391	IOT BASED SMART AGRICULTURE WITH ANIMAL INTRUSION DETECTION AND REPELLENT SYSTEM	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. A N MAHESHWARAPPA Dr. RAJASHEKHARGOUDA C. PATIL	Mr. SUPRITH N C Mr. V YESHWANTH Mr. SHIVAKUMAR Y Mr. SURAJ V J

FDP'S ATTENDED

Dr. Jai Prakash Prasad, Associate Professor, Dept. of ECE has undergone the trainings in Phase locked loops- Design & simulation Model, Art of Learning, Multimodal analysis of Communication Skill behavior in Job interview scenarios, Recent trends in VLSI Design, RF front end design for x-band RADAR using 0.25um Gan HEMT technology, Big Data and Covid 19 : Technologies and Applications, Robotics- Connecting Engineering Minds, Introduction to embedded hardware & Testing Domain, Real time Embedded systems and Tips and Tricks to Learn Java, Webinar on Introduction and overview of Big Data & Deep Learning.

Dr. Rajashekhargouda C Patil, Associate Professor, Dept. of ECE has undergone the trainings in Techonology- the future of recruitment, Industry 4.0, IEEE REFERENCE MANAGEMENT TOOL FOR RESEARCH ARTICLES AND THESIS WRITING, Lessons in Leadership, Let's talk block chain, Art of Learning, Machine Learning and Deep Learning, Design the Thinking. AICTE-ISTE Approved Refresher Programme -on Innovative Teaching and Best Practices Carol Sanjana P has successfully completed certification course on "Learning Java".

Dr. Chandrashekar N S, Associate Professor, Dept. of ECE has undergone the trainings in Coarse Era-Fundamentals of network Communication, Wireless Communication for Everybody, Asymmetric Cryptography and Key Management, International Webinar Series, Biofuel – A promising alternative Fuel, LiDAR for Autonomous vehicles, Pattern Recognition using Machine Learning, Application of Reliability theory to shock models, Online International Yoga Day, Phase locked loops- Design & simulation Model and Art of Learning, Wireless Communication for every body, AICTE-ISTE Approved Refresher Programme-on Innovative Teaching and Best Practices

Dr. Bhagya P Associate Professor, Dept. of ECE has undergone the trainings in webinar on microcontroller application perspective.

Mr. Suresha H.S, Associate Professor, Dept. of ECE has completed the Phase locked loops- Design & simulation Model, Art of Learning, Multimodal analysis of Communication Skill behavior in Job interview scenarios, Recent trends in VLSI Design, EQUIZ on Communication Engineering, Evolution of Machine learning and deep learning, 5G Communications.

Mrs. Roopa B S, Associate Professor, Dept. of ECE has undergone the trainings in SCIENTIFIC WRITING FOR JOURNALS, Medical Image Processing, Applied Data Science, Recent Trends in Deep learning Techniques for image processing applications, Fundamental Neuroscience for Neuro Imaging, 2days Hands on Workshop on Matlab/Simulink.

Mrs. Babitha S, Associate Professor, Dept. of ECE has undergone the trainings in Art of Learning, NanoScale Semiconductor Devices in VLSI Design, Analog Circuit, Digital Circuit, STTP to bridge gap between industry and academia, Machine learning & IOT, Electric Power Systems. JSR, Motion prediction and detection.

Mrs. Shubha G N, Assistant Professor, Dept. of ECE has completed the NPTEL Courses in Digital Electronics, NATE and NATE FDP. She has attended the FDP courses in EFFECTIVE ONLINE ENGINEERING EDUCATION: TIPS & TRICKS and Writing a Competitive Grant Research Proposal, E quiz on teaching pedagogy, Sensors and their applications, IJESC Journal, Oxford College Of Engineering, DBIT Guest Lecture.

Mr. Manjunath G, Assistant Professor, Dept. of ECE has completed the programmes in RF front end design for x-band RADAR using 0.25um Gan HEMT technology, Mat lab interfacing with Artificial Intelligence, National Level two Day webinar on Personality Development, Future Scope of Engineering in Global Development, Artificial Intelligence, Cyber Security, Emerging Trends in Engineering Research, Skills and Opportunities in VLSI, VLSI - Industrial and Research perspectives, Brain Computer using Robot, AI thinking applications in Industrial perspective, 2days Hands on Workshop on Matlab/Simulink, Career opportunity in VLSI Industry

Mrs. Bhavya A B ,Assistant Professor, Dept. of ECE has completed the STTP to bridge gap between industry and academic, webinar on microcontroller application perspective.

Mrs. Tejaswini M L Assistant Professor, Dept. of ECE has completed the Multimodal analysis of Communication Skill behavior in Job interview scenarios, Art of Learning, Recent trends in VLSI Design, RF front end design for x-band RADAR using 0.25um Gan HEMT technology, Sensors and their applications, PHYTON WITH DATA STRUCTURES, phyton programming for everybody, CYPTOGRAPHY and Information theory. FDP on Functional Materials for Engineering applications, Workshop on Recent trends in materials for next generation applications, Short term.

Research & Funds

-Dr. Rajashekhargouda C Patil ,Professor has received funds from VGST for setting up Research and Development Lab.

Faculty Publications

-Mrs.Mahadevi S.Manur, Dr. Kiran Bailey, "Design And Implementation Of Ss-Adc Component Using Finfet Technology", International Research Journal of Modernization in Engineering Technology and Science, Volume:04/Issue:02/February-2022, 429-437

-Nataraj, K.R., Mallikarjunaswamy, S., Rekha, K.R. (2022). Implementation of an Effective Hybrid Partial Transmit Sequence Model for Peak to Average Power Ratio in MIMO OFDM System. In: Kumar, A., Senatore, S., Gunjan, V.K. (eds) ICDSMLA 2020. Lecture Notes in Electrical Engineering, vol 783. Springer, Singapore

-Nejekar, S.M., Nataraj, K.R., Rekha, K.R., Sheela, S., Pooja, P., Nafeesa, K.S. (2022). Raspberry Pi Based Smart Refrigerator to Recognize Fruits and Vegetables. In: Kumar, A., Senatore, S., Gunjan, V.K. (eds) ICDSMLA 2020. Lecture Notes in Electrical Engineering, vol 783. Springer, Singapore.

-Rajashekhargouda C. Patil and Chandrashekar N. S. have presented Journal paper “Ius Thegmine - Gender and Breed Detection of Silk Cocoons”, in International Journal of Research and Analytical Reviews, in the year January 2022 Vol:9, Issue:1.

-Chandrashekar N S and Rajashekhargouda C. Patil, have presented conference paper“DBRAM-CSLA-CED Method for Lung Cancer Detection by Virtex 6 FPGA”, in International Conference on Innovations in Computer Science, Electronics & Electrical Engineering (ICICEEE 22) in the yearFebruary 2022.

-Rajashekhargouda C. Patil and Chandrashekar N. S., have presented conference paper “Sentimental Analysis on Amazon Reviews using Machine Learning”, Accepted in 2nd International Conference on Ubiquitous Computing and Intelligent Information Systems [ICUIS 2022], February 2022.

ACHIEVEMENTS OF DR. SHASHI RANJAN

DEPARTMENT OF ELECTRONICS AND COMMUNICATION

THE NEWSLETTER...



HE CONDUCTED IN HOUSE INTERNSHIP AT DBIT ON
“5G ANTENNA DESIGN” WHERE 21 INTERN STUDENTS
DESIGNED SEVERAL ANTENNAS WITH SPECIFICATIONS
FOR 5G COMMUNICATION AND PAPER PRESENTATION
IS UNDER PROGRESS...

THIS JOURNAL:

DR.SHASHI RANJAN

WAS INVITED AS A RESOURCE
PERSON & DELIVERED EXPERT TALK
ON FOR “5G TECHNOLOGY”
WORKSHOP AT DAYANAND SAGAR
COLLEGE OF ENGINEERING,
BANGALORE FROM 24TH TO 25TH
NOV,2022.





HE WAS APPOINTED AS A NODAL OFFICER FOR IMPLEMENTING AICTE PARAKH (ONLINE ASSESSMENT PORTAL)AT DBIT ,BANGALORE ,WHERE MORE THAN 200 STUDENTS ENROLLED TO ACESSE THEMSELVES AND GET AWARDED WITH A CERTIFICATE .



DR.SHASHI RANJAN WAS INVITED AS A RESOURCE PERSON & HE DELIVERED EXPERT TALK ON "ANTENNA DESIGN FOR 5G COMMUNICATION USING CST STUDIO TOOL" AT AICTE ISTE SPONSORED INDUCTION / REFERESHER PROGRAM ON RECENT TRENDS OF ARTIFICIAL INTELLIGENCE FOR 5G COMMUNICATION FROM 4TH TO 10TH JAN 2022.



HE WAS INVITED AS A RESOURCE PERSON & HE DELIVERED EXPERT TALK ON" 5G ANTENNA DESIGN USING CST STUDIO SUITE " AT 2ND INTERNATIONAL CONFERENCE ON EMERGING TRENDS & INNOVATIONS IN ICT-2022 (ICEI-2022) FROM 10TH MARCH TO 12TH MARCH 2022 WHICH WAS ORGANISED BY SCTR'S PUNE INSTITUTE OF COMPUTER TECHNOLOGY.

SPORTS ACHIVEMENTS



MS.VARSHINI U.
1DB18EC155

SOFTBALL(W)

Athletes, & Soft Ball

All India Inter University tournament organized by University of Calicut, Kerala. From 2nd to 5th March 2019. She is Participated in VTU Inter Collegiate Athletics, & Soft Ball tournaments – 2018. Received number of Awards and certificates.



MS.LAVANYA GM
1DB19EC070

Baseball (W)

Softball, Baseball & Weight Lifting

All India Inter University Baseball (Women) Competition to be held at Royal Global University, Assam, from 6th to 10th January 2022.

She is Participated in VTU Inter Collegiate Soft Ball & Baseball tournaments from 2019 to 2022. Received number of Awards and certificates.



MS.SHREYA T K
1DB20EC078

Baseball (W)

Softball, Baseball & Wight Lifting

All India Inter University Softball (Women) Competition to be held at “Deenbandhu Chhotu Ram University of Science and Technology, Murthal (Sonapat) from 10th to 14th March 2022.



SAMUEL CD
1DB20EC075
FOOTBALL



SANNIDHI H B SHETTY
1DB19EC114
NETBALL



GAANA S KUMAR
1DB19EC045
SOFTBALL



R PRAJWAL GOWDA
1DB18EC101
KHO-KHO



DINESH B
1DB18EC031
VOLLEY BALL



ARPITHA P
1DB19EC011
BADMINTON



PRAKUL KUMAR D
1DB18EC095
KABBADI



DARSHAN J
1DB18EC025
KABBADI

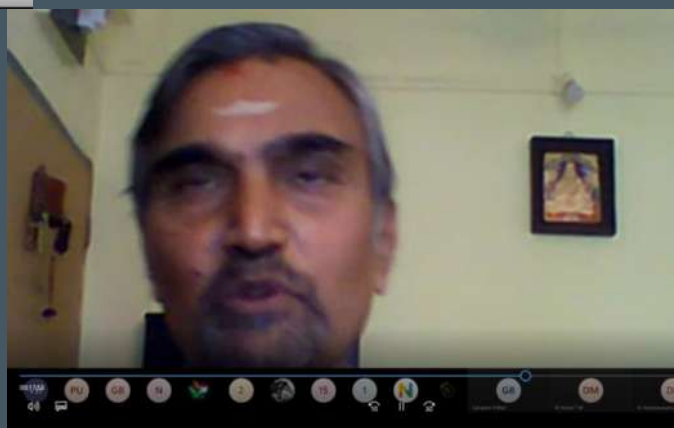


LAVANYA G M
1DB19EC070
SOFTBALL



BHARGAVI V A
1DB19EC019
SOFTBALL

Three Days National Level Virtual Webinar on “YOGA MEDITATION AND PRANAYAMA” 7th International Yoga Day – 2021 (Be with Yoga, Be at Home)



EXTRA CURRICULAR ACTIVITIES

KAVYA KACHILA'S - PHOTOGRAPHY AND SKETCHES



VAIBHAV SHETTY'S PHOTOGRAPHY

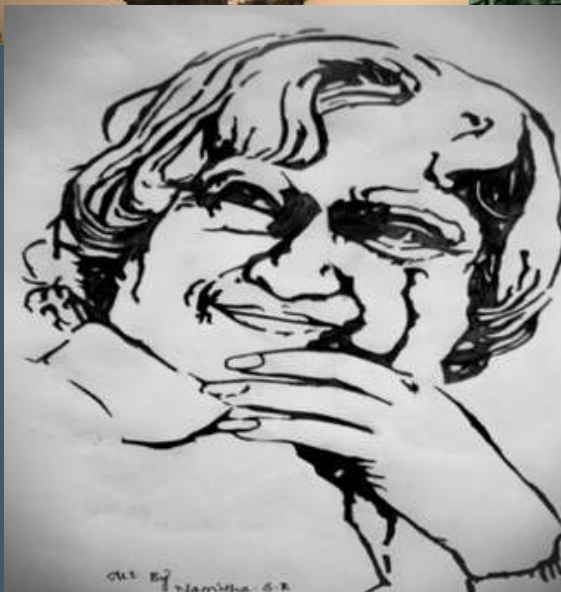


PRAJWAL GOWDA'S PHOTOGRAPHY



Namitha S.R's Sketches

Inspiring Indian personalities



S.M.VAISHNAVI'S SKETCHES



CHAITANYA'S POETRY

ಕೊರೊನಾ ನಾಟಕ ನಿಲ್ಲಿಸು ನಿನ್ನ ಈ ನರ್ತನವನ್ನು
 ಕಣ್ಣೆ ವೈರಾಣುವಾದರು ನಿಗು ಕೆಗೆಯುತ್ತಿರುವೆ ಜನರ ಹ್ರಾಣವನ್ನು
 ಯಾರ ದೇಶದಿಂದ ಒಂದು ಮಾಡಿರುವೆ ಎಲ್ಲೆಡೆ ಜುಯಣವನ್ನು
 ನಿಲ್ಲಿಸು ಎಲ್ಲೆಡೆ ಹಬ್ಬುತ್ತಿರುವ ನಿನ್ನ ಚಲನವನ್ನು
 ಕೊನೆಗಾಣಿಸು ಮರಣ ಯೋಮವನ್ನು

ನಿನ್ನೆ ಯಾಕಿರುವೆ ಈ ದಿಗ್ಭಂಧನವನ್ನು
 ಎಲ್ಲೆಡೆ ನೀನೆ ತಂದಿರುವೆ ಒಡತನವನ್ನು
 ನೋಡುತ್ತಿದ್ದೆನೆ ಕೈಲಾಗದೇ ಮನದಲ್ಲೇ ನೊಂದು ಹನಿವಿನಿಂದ ನಾಯುತ್ತಿರುವರನ್ನೆ
 ನಿನಗೇಕೆ ತಿಳಿಯುತ್ತಿಲ್ಲ ಈ ನೋವು ಇನ್ನು

ಮಕ್ಕಳ ಬಾಲ್ಯವನ್ನು ಕಿತ್ತುಕೊಂಡಿರುವ ನಿನ್ನ
 ಯುವಕರ ಕೆತ್ತಿ ಸಾಮರ್ಥ್ಯ ಎಲ್ಲವನ್ನು ಕಳೆದು ಹಾಕಿರುವ ನಿನ್ನ
 ವೃದ್ಧರ ಆರೋಗ್ಯ ಕಳೆದು ಕೊಂಡಿರುವೆ ಇನ್ನೆ
 ನೋಡಿ ನಗುತ್ತಿರುವೆಯಲ್ಲ ಮನಸ್ಸಿಲ್ಲದೇ ವೈದ್ಯರ ನಮ್ಮಯ ರಕ್ಷಕ ಪಡೆಗಳ ಕಣ್ಣಿನೆ-

ನಿನಗೆ ಉಳಿಸಲಿಲ್ಲ ಇನ್ನು ಹೆಚ್ಚು ಸಮಯವಿನ್ನೆ
 ಕರುಣೆಯೇ ಇಲ್ಲದೆ ಮರ್ತನುತ್ತಿರುವ ನಿನ್ನ ಈ ಸ್ವಭಾವವನ್ನು
 ನೋಡುತ್ತ ನುಮ್ಮನೇ ಕುಳಿತಲ್ಲ ನಾವಿನ್ನೆ
 ಕೋಪಿಸುತ್ತಾನೆ ಆ ದೇವ ನಿನಗೆ ಕೊನೆಯನ್ನು

ಎಚ್ಚರದಿಂದಲೂ ಹೆಚ್ಚುತ್ತಿರುವೆ ಬಿಟ್ಟುಯೋಗು ಈ ಜಗತ್ತನ್ನು
 ಕರುಣಿಸು ನಮ್ಮಯ ಹಳಗೆ ಖುಷಿಯನ್ನು
 ಉಸಿರಾಡಲು ಬಿಡು ಮನುಕುಲವನ್ನು

- ಇಕ್ಕೆತನ್ಯ . ಎನ್

Name : Chaitanya S
 Semester : 6th sem A'sec
 USN : 1DB19EC026