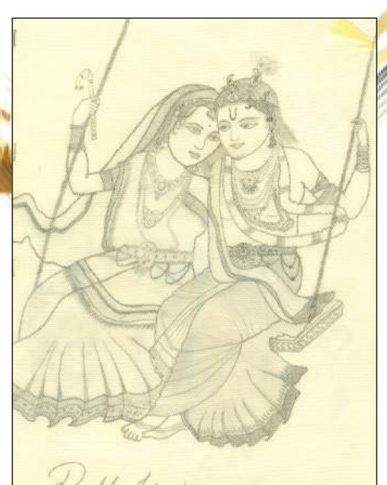
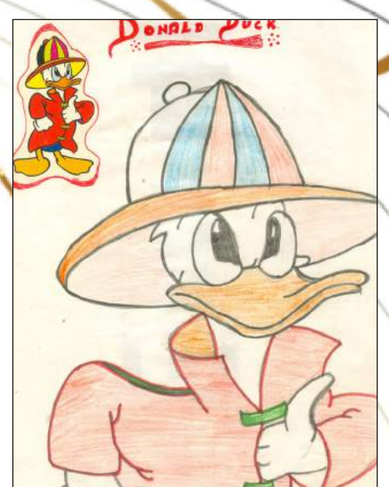
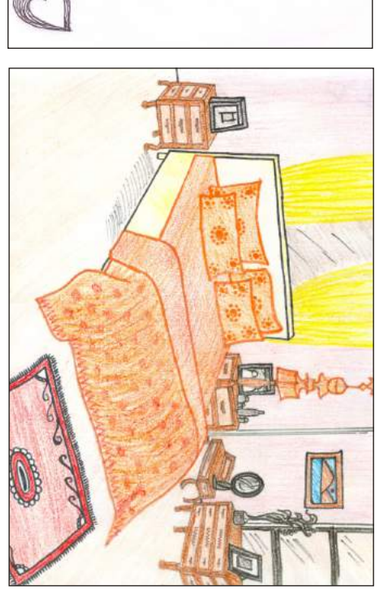
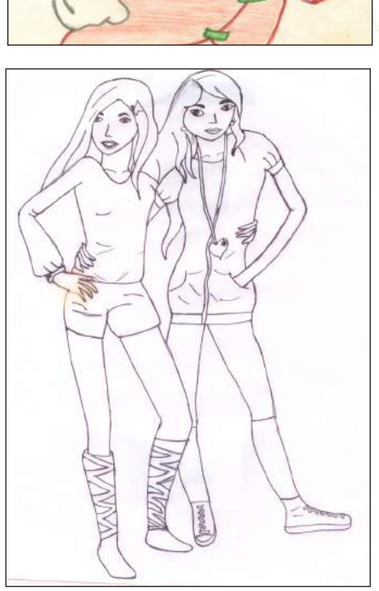
Drawings by Students

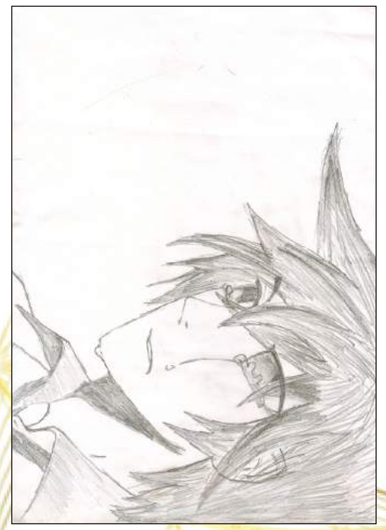








Deepa H B 8th SEM, ISE



Sowmya Bennur 6th ISE

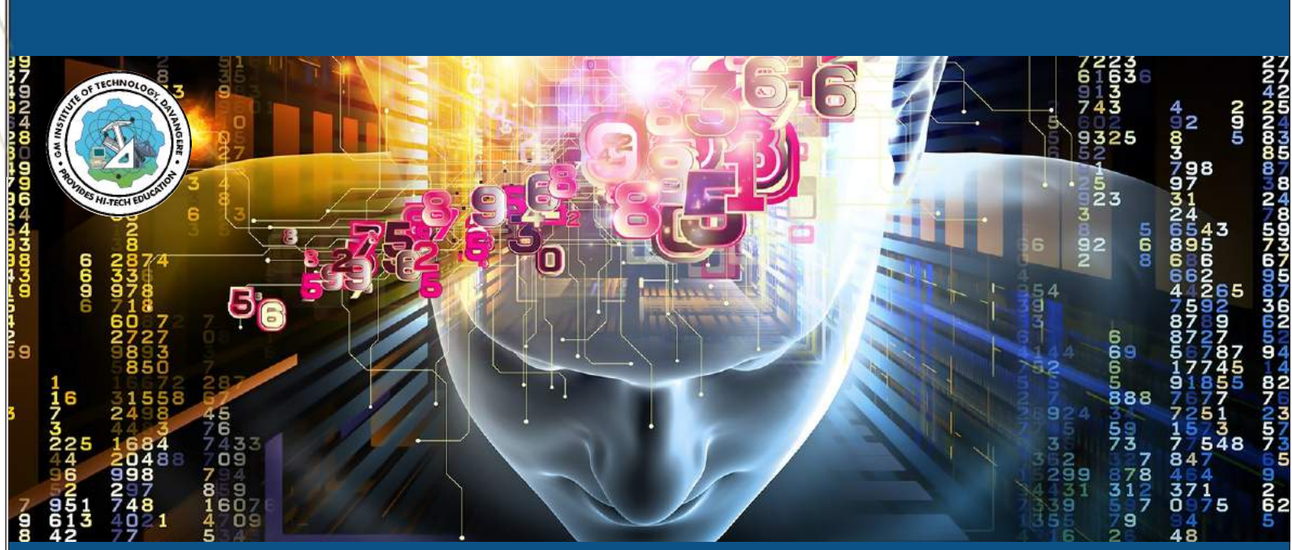
MAGAZINE

2017-18

TECH KNIGHTS

.....EXPLORE DAY AND NIGHT

INFORMATION SCIENCE & ENGINEERING



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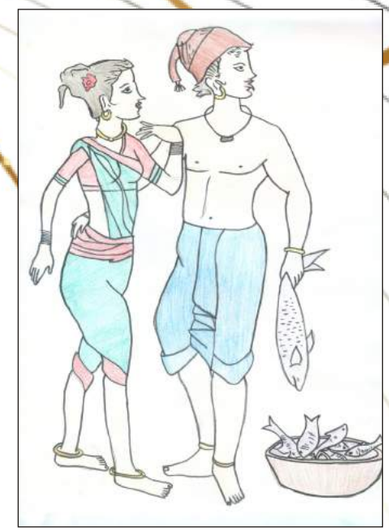

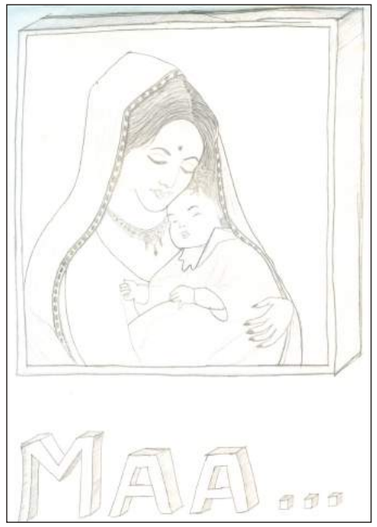

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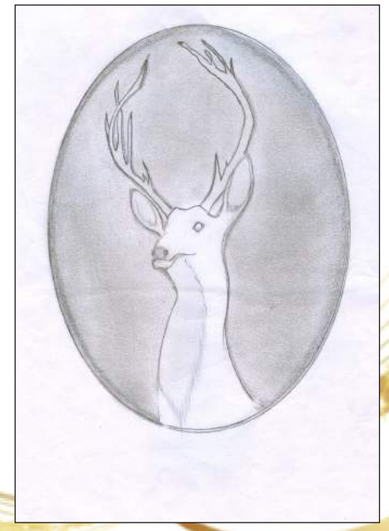
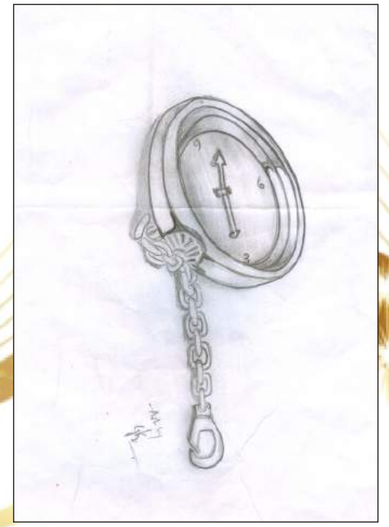




Kavya G K 8th Sem

ಜೀವನದ ಹಾದಿ

ಜೀವನ ಒಂದು ಸವಾಲು – ಧೈರ್ಯದಿಂದ ಎದುರಿಸು
ಜೀವನ ಒಂದು ಕೊಡುಗೆ – ಆನಂದದಿಂದ ಅನುಭವಿಸು
ಜೀವನ ಒಂದು ಕರ್ತವ್ಯ – ನಿಷ್ಠೆಯಿಂದ ಪಾಲಿಸು
ಜೀವನ ಒಂದು ನಾಟಕ – ನಿನ್ನ ಪಾತ್ರ ನಿರ್ವಹಿಸು
ಜೀವನ ಒಂದು ನಿಗೂಢ – ಪರಿಪೂರ್ಣವಾಗಿ ಪರಿಶೋಧಿಸು

ಜೀವನ ಒಂದು ಗೀತೆ – ಹೃದಯತುಂಬಿ ಹಾಡು
ಜೀವನ ಒಂದು ವಚನ – ಮರೆಯದೆ ಪಾಲಿಸು
ಜೀವನ ಒಂದು ಗೊಂದಲ – ಸದಾ ಸರಿಪಡಿಸು
ಜೀವನ ಒಂದು ಸಾಹಸ – ಧೈರ್ಯದಿಂದ ಯಶಸ್ವಿಗೊಳಿಸು

ಜೀವನ ಒಂದು ದುರಂತ – ಎದೆಗುಂದದೆ ಎದುರಿಸು
ಜೀವನ ಒಂದು ಶೋಕ ಗೀತೆ – ಆನಂದದಿಂದ ಆಲಾಪನೆ ಮಾಡು
ಜೀವನ ಒಂದು ಹೋರಾಟ – ನಿರಂತರ ಹೋರಾಡು
ಜೀವನ ಒಂದು ಗುರಿ – ಯಶಸ್ವಿಯಾಗಿ ತಲುಪು

ನುಂಗುವ ಮನಸ್ಸಿದ್ದರೆ – ಕೋಪವನ್ನು ನುಂಗು
ಮಾಡುವ ಮನಸ್ಸಿದ್ದರೆ – ಸತ್ಕಾರ್ಯವನ್ನು ಮಾಡು
ತ್ಯಜಿಸುವ ಮನಸ್ಸಿದ್ದರೆ – ದುರ್ಗುಣವನ್ನು ತ್ಯಜಿಸು
ಹೇಳುವ ಮನಸ್ಸಿದ್ದರೆ – ಸತ್ಯವನ್ನು ಹೇಳು
ಕೊಡುವ ಮನಸ್ಸಿದ್ದರೆ – ವಿದ್ಯಾ, ಅನ್ನವನ್ನು ಕೊಡು
ನೆನೆಯುವ ಮನಸ್ಸಿದ್ದರೆ – ಸಹಾಯ ಮಾಡಿದವರನ್ನು ನೆನೆ
ಬಾಳುವ ಮನಸ್ಸಿದ್ದರೆ – ಹಕ್ಕಿಯಂತೆ ಬಾಳು
ನಡೆಯುವ ಮನಸ್ಸಿದ್ದರೆ – ಧರ್ಮದಂತೆ ನಡೆ
ಪೋಷಿಸುವ ಮನಸ್ಸಿದ್ದರೆ – ತಂದೆ–ತಾಯಿಯನ್ನು ಪೋಷಿಸು
ಗೌರವಿಸುವ ಮನಸ್ಸಿದ್ದರೆ – ಗುರು ಹಿರಿಯರನ್ನು ಗೌರವಿಸು

– ಜ್ಯೈತ್ರಾ .ಎನ್.
೬ನೇ ಐ.ಎಸ್.ಇ

ಇ-ಮೇಲ್

ಇಂಟರ್‌ನೆಟ್ ಉಗಮವಾಗುವ ಮೊದಲು 'ಆರ್ಪಾನೆಟ್' ಎಂಬ ಕಂಪ್ಯೂಟರ್ ಜಾಲವಿತ್ತು. 1971 ರಲ್ಲಿ ಅಮೇರಿಕದ ರೇಮಂಡ್ ಟಾಮ್ಲಿನ್‌ಸನ್ ಎಂಬ ಕಂಪ್ಯೂಟರ್ ಪ್ರೋಗ್ರಾಮರ್ 'ಇ-ಮೇಲ್' ಎಂಬ ವ್ಯವಸ್ಥೆಯನ್ನು ಸೃಷ್ಟಿಸಿದ. ಅದು ಕಂಪ್ಯೂಟರ್‌ಗಳ ನಡುವೆ ಸಂದೇಶಗಳನ್ನು ರವಾನಿಸುವ ವ್ಯವಸ್ಥೆಯಾಗಿತ್ತು. ಯೂಸರ್ ನೇಮ್ ಹಾಗೂ ಕಂಪ್ಯೂಟರ್ ನೇಮ್‌ಗಳನ್ನು ಪ್ರತ್ಯೇಕಿಸಲು '@' ಸಂಕೇತವನ್ನು ಟಾಮ್ಲಿನ್‌ಸನ್ ಬಳಸಿದ್ದ.

1996 ರಲ್ಲಿ ಇಂಟರ್‌ನೆಟ್ ಮೂಲಕ ಸಾರ್ವಜನಿಕರಿಗೆ 'ವೆಬ್-ಮೇಲ್' (ವೆಬ್ ಆಧಾರಿತ ಇ-ಮೇಲ್) ಸೌಲಭ್ಯವನ್ನು ಸೃಷ್ಟಿಸಿದ್ದು ಭಾರತಮೂಲದ ಸಬೀರ್ ಭಾಟಿಯಾ ಅವರ ವೆಬ್‌ಸೈಟು ಇಂಟರ್‌ನೆಟ್‌ನಲ್ಲಿ ಯೂಸರ್‌ನೇಮ್ ಹಾಗೂ ಡೊಮೈನ್ ನೇಮ್‌ಗಳನ್ನು ಪ್ರತ್ಯೇಕಿಸಿ ಸೂಚಿಸಲು '@' ಸಂಕೇತವನ್ನು ಬಳಸಲಾಯಿತು.

– ಭುವನಾ .ಜಿ. ಮರಿಗೌಡರ್,
೬ನೇ ಐ.ಎಸ್.ಇ

Department Vision

To evolve as an Excellent Technological Education Center of Information Science to create competitive & responsible engineering professionals for the advancement of society.

Department Mission

1.To provide application specific training for developing quality engineers in Information Science.
2.To develop creativity in students to become competent in the field of Information Science.
3.To inculcate social and ethical values in students to perform better in diverse environment.

Program Educational Objectives (PEOs)

PEO1. To develop graduates who are proficient to solve wide range of computing related problems.

PEO2. To prepare graduates who have the necessary skills required for higher education & entrepreneurship.

PEO3. To prepare graduates who have theability to engage in lifelong learning.

Program Specific Outcomes (PSOs)

Graduates of Information Science & Engineering are,

PSO1. Capable to design, develop & test the IT Solutions in real time.

PSO2. Competent to apply knowledge, to manage & monitor IT resources.

Program Outcomes (POs)

Po1. Engineering Knowledge:
Apply the knowledge of mathematics, science, engineering fundamentals,and an engineering specialization to the solution of complex engineering problems.

Po2. Problem Analysis:
Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

Po3. Design/Development of Solutions:
Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

Po4. Conduct Investigations of Complex Problems:
Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

Po5. Modern Tool Usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

Po6. The Engineer and Society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

Po7. Environment and Sustainability:
Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

Po8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

Po9. Individual and Team Work: Function effectively as an individual, and as a member or leader in diverse teams, and in multi disciplinary settings.

Po10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

Po11. Project Management and Finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multi disciplinary environments.

Po12. Life-long Learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

ನೀರು ನೀರು

ನೀರು ನೀರು ಎನ್ನುವ ಜನರೇ
ನೀರನ್ನು ಹಾಳು ಮಾಡಿಹರು
ನೀರನ್ನು ಉಳಸಿ ಎನ್ನುತ ಅವರು
ಪ್ರತಿಭಟನೆಯನು ಮಾಡಿಹರು

ಕುಡಿಯಲು ನೀರಿಲ್ಲ ಎನ್ನುವ ಅವರು
ಇರುವ ನೀರನ್ನು ಪೋಲು ಮಾಡಿಹರು
ನಲ್ಲಿಯ ನೀರನು ಸೋರಲು ಬಿಟ್ಟು
ಸಂಗ್ರಹಿಸಲು ಮರೆತಿಹರು

ನೀರಿನ ಮರುಬಳಕೆಯ ಅರಿತರು ಅವರು
ಮಾಡದೆ ಹರಿಯಲು ಬಿಟ್ಟಿಹರು
ಕುಡಿಯಲು ನೀರೇ ಇಲ್ಲದ ಕಾಲದಿ

ಬಾಟಲಿ ನೀರಲಿ ಮೊಗವನು ತೊಳೆಯುತ
ಹಣದ ದರ್ಪವನು ತೋರಿಹರು
ರೊಕ್ಕದ ಸೊಕ್ಕಲಿ ಮೆರೆವ ಇವರೇನು ತಿಳಿಹರು
ನೀರಿನ ಹಸಿಯ ಬೆಲೆಯನು

ನೀರಿನ ಮಹತ್ವವ ಅರಿತವರು
ಮಾಡರು ಇಂತಹ ತಪ್ಪನು
ಮಾಡರು ಘೋಷಣೆ ಪ್ರತಿಭಟನೆಯನು
ಬಳಸುವರು ಜಲವನು ಸರಿಯಾದ ತರದಿ

ಕೊನೆಯಲಿ ಕೋರುವ ಒಂದೇ ಮಾತಿದು
ನೀರನು ಹಾಳು ಮಾಡದಿರಿ
ಪ್ರಕೃತಿಯ ವಿಕೋಪಕ್ಕೆ ಸಿಲುಕದಿರಿ

ನೀರನು ಉಳಸಿ ಜಲವನು ಉಳಸಿ
ರೈತನ ಉಳಸಿ ಜಾನುವಾರವ ಉಳಸಿ
ಕಾಡನು ಬೆಳಸಿ ಜೀವವ ಉಳಸಿ

ನೀರು ನೀರು ಎನ್ನುವ ಜನರೇ
ನೀರನು ಹಾಳು ಮಾಡದಿರಿ
ನೀರನು ಉಳಸುವ ಮಾರ್ಗವ ಅರಿತು
ನಿಮ್ಮ ಜೀವನದಿ ಅದನಳವಡಿಸಿರಿ

-ಸುಷ್ಮಾ .ಎಸ್.ಹೆಚ್.
6ನೇ ಐ.ಎಸ್.ಇ

ಪ್ರೀತಿಯ ದೇವತೆ ಅಮ್ಮ

ಅಮ್ಮ ಎಂಬ ದೇವತೆ
ನಿನಗೆ ನಮ್ಮ ನಮಸ್ತೆ

ಪ್ರೀತಿ ನೀಡುವ ನಮ್ಮ ಕಾಯುವ
ನಮ್ಮ ಒಳಿತ ಬಯಸುವ
ನೀನು ನಕ್ಕರೆ ಜೇನ ಸಕ್ಕರೆ
ನಿನ್ನ ಮಮತೆ ಅಕ್ಕರೆ, ಕಂದನ ಬಾಳಿಗೆ ಆಸರೆ

ಅಮ್ಮ ಎಂಬ ದೇವತೆ
ನಿನಗೆ ನಮ್ಮ ನಮಸ್ತೆ

ಬ್ರಹ್ಮ ವಿಷ್ಣುಗೂ ತಾಯಿ ನೀನು
ಪ್ರಕೃತಿಯ ಸುಂದರ ಸೃಷ್ಟಿ ನೀನು
ದೇವ ನೀಡಿದ ವರವು ನೀನು
ಕಂದನ ಜೀವಕೆ ಆಧಾರ ನೀನು

ಅಮ್ಮ ಎಂಬ ದೇವತೆ
ನಿನಗೆ ನಮ್ಮ ನಮಸ್ತೆ

ನಮ್ಮ ತಪ್ಪ ಕ್ಷಮಿಸುವೆ, ಮುದ್ದು ಮನದಿ ಹರಿಸುವೆ
ಜಗವೇ ಪೂಜಿಸುವ ದೇವಿ ನೀನು, ನಿನಗೆ ನಮ್ಮ ನಮನವು
ತಾಯಿ, ಆಯಿ, ಅಬ್ಬೆ, ಅವ್ವ ಎಂಬ ಹಲವು ನಾಮ ನಿನಗಿದೆ
ಹೇಗೆ ಕರಿದರು ಅರ್ಥ ಒಂದೆ ತಾಯಿ ಎಂಬ ದೇವತೆ
ಅಮ್ಮ ಎಂಬ ದೇವತೆ, ನಿನಗೆ ನಮ್ಮ ಅನಂತ ಅನಂತ ನಮಸ್ತೆ

-ಸೌಮ್ಯ ಬೆನ್ನೂರ
6ನೇ ಐ.ಎಸ್.ಇ

ಎಲ್ಲಕಿಂತ ಫಸ್ಟ್ ಮೊಬೈಲ್ ಫೋನ್

ಮೊಬೈಲ್ ಫೋನ್ (ಸೆಲ್ಯುಲಾರ್ ಫೋನ್ – ಸೆಲ್ ಫೋನ್) ಈಗ ಬಹುತೇಕ ಜನರ ಬಳ ಇದೆ. ವಿದ್ಯಾರ್ಥಿಗಳ ಕೈಗೂ ಬಂದಿದೆ! ಮೊದಲ ಬಾರಿಗೆ ಸೆಲ್ ಫೋನನ್ನು ತಯಾರಿಸಿದ್ದು ಅಮೇರಿಕದ ಬೆಲ್ ಲ್ಯಾಬ್ಸ್ 1940ರ ದಶಕದಲ್ಲೇ ಸೆಲ್ ಫೋನ್ ತಯಾರಿಸುವ ಯೋಜನೆ ಚಿಂತನೆ ನಡೆಸಿತ್ತು.

ಈ ನಿಟ್ಟಿನ ಸಂಶೋಧನೆಯೊಂದಕ್ಕೆ 1973 ರಲ್ಲಿ ಮೋಟೊರೋಲಾ ಕಂಪೆನಿ ಪೆಟೆಂಟ್ ಪಡೆಯಿತು. ಅದು ತಯಾರಿಸಿದ ' ಡೈನಾಟಾಕ್ 8000 ಎಕ್ಸ್' ಮೊದಲ ಸೆಲ್ಯುಲಾರ್ ಫೋನ್ ಎನಿಸಿಕೊಂಡಿತು.

1973 ರ ಏಪ್ರೀಲ್ 3 ರರಂದು ಮೋಟೊರೋಲಾದ ಸಿಸ್ಟಮ್ಸ್ ಡಿವಿಷನ್ ಜನರಲ್ ಮ್ಯಾನೆಜರ್, ನ್ಯೂಯಾರ್ಕ್ ನಗರದ ರಸ್ತೆಯಲ್ಲಿ ನಿಂತು ಎಟಿಎನ್ಟಿ ಲ್ಯಾಬ್ಸ್ ಕಂಪೆನಿಗೆ ' ಡೈನಾಟಾಕ್ 8000 ಎಕ್ಸ್' ಬಳಸಿ ಕರೇ ಮಾಡಿದರು. ಅದೇ ಮೊದಲ ಫೋನ್ ಕರೆ.

' ಡೈನಾಟಾಕ್ 8000 ಎಕ್ಸ್' ಮಾರುಕಟ್ಟೆಗೆ ಬಂದಿದ್ದು 1983 ಅದು ಕೆ.ಜಿ. ಗಟ್ಟಲೆ ತೂಕವಿದ್ದುದರಿಂದ ಜನರು ಅದನ್ನು 'ಬ್ರಿಕ್' (ಇಟ್ಟಿಗೆ) ಎಂದೇ ಕರೆಯುತ್ತಿದ್ದರು. ಆಗ ಅದರ ಬೆಲೆ : 3995 ಡಾಲರ್ (ಈಗಿನ ಲೆಕ್ಕದಲ್ಲಿ ಹತ್ತಿರ 2 ಲಕ್ಷ ರೂಪಾಯಿ)

– ಭುವನಾ .ಜಿ. ಮರಿಗೌಡರ್,
6ನೇ ಐ.ಎಸ್.ಇ

First in India Women

Field	Person
First Prime Minister	Mrs. Indira Gandhi
First Minister	Mrs. Vijayalakshmi Pandit
First Central Minister	Ms. Rajkumari Amrith Kaur
First Governor of State	Mrs. Shanno Devi
First Chief Minister of State	Mrs. Sucheta Kripalani
First IAS Officer	Mrs. Anna George Malhotra
First IPS Officer	Mrs. Kiran Bedi
First Advocate	Mrs. Gornelia Sorabji
First Judge of High Court	Mrs. Anna Chandi
First Judge of Supreme Court	Ms. M. Fathima Beevi
First Doctor	Ms. Kadambini Ganguli
First Chief Engineer	Mrs. P.K. Thresia
First Magistrate	Mrs. Omana Kunjamma
First to win Noble Prize	Mother Theresa
First to be crowned Miss India	Ms. Reita Fariq
First to be crowned Miss Universe	Ms. Sushmitha Sen

Bhuvana .B. Marigoudar,
6th ISE

Indians Mars Mission,

The red planet Mars has attracted the scientists all over the world in the recent past. It seems there is a global race going on to conquer the Mars. This is because planet earth is facing various issues challenging human life. So the mankind is in search of a new planet to make its new dwelling there.

As Mars seems to similar to earth and there is great interest among the scientists to explore the possibilities of life there. So far 51 missions have been sent to the Mars out of which 21 have succeeded. NASA and other agencies sent various missions to the Mars to investigate habitability, climate and geology.

- Even India has joined the race of reaching Mars, with the successful launch of its "Mangalayaan". India has entered a new era in its space programme to explore the red planet Mars. "Mangalayaan" is India's first interplanetary mission. It will revolve around the Mars and explores the presence of life there. The spacecraft consist of five scientific instruments to study various things around the red planet.
- Methane sensor will explore methane which is an indicator for life presence and map its sources.
- Lyman-Alpha photometer will measure the hydrogen isotopes ratios hydrogen and estimate the amount of water loss to outer space.
- Thermal Infrared Imaging Spectrometer will measure temperature and emissivity of the surface composition and mineralogy of mars.
- Mar's color camera will capture the Mars surface in the visual spectrum.
- India's primary objective of the Mars orbiter Mission is to develop the technologies required for design, planning, management and operations of an interplanetary mission.

It comprises following four Tasks:

1. Design and Realization of Mar's orbiter with capability to perform earth-bound maneuvers, cruise phase of 300 days, Mars orbit insertion / Capture and an orbit phase around the Mars.
2. Deep-space communication, navigation, mission planning and management.
3. Incorporates autonomous features to handle contingency situations.
4. It will measure surface features such as morphology, mineralogy and atmosphere.

The Mars orbiter mission has opened a new page in historical chapter of India's space programme. The primary objective of the Mars orbiter mission is to showcase India's rocket launch system, spacecraft building and operations capabilities. It demonstrates how fast India is developing. It is definitely a feature on India shining adage. Let all the hard work and efforts of our scientist work together and our Indian Tricolor fly in the red planet "Mar's".

Sowmya Bennur
6th ISE

Challenge and Confidence

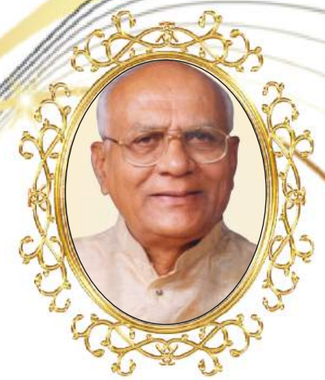
As gold is tested in fire, in the same way challenges test us in life. Life is an event from B to D that is from birth to death but what is between B and D, it has C. So what is C? it is a challenge which has to be faced by everyone. To face it we must have self confidence which is basic key to success.

Challenge in your life does not come to destroy you ; they come to help you and realizing your hidden potential. Every day you should meet the challenge with lot of courage and confidence, within you specially while doing something which is outside your comfort zone.

There are two great days in a person's life the day we discover why we are born. Life through challenges and when you meet them life pens up. It does not have to be running the Newyork marathon; it could be as simple as making a difficult phone call to turning the TV, to volunteering perhaps the challenge could be as easy as going to sleep on time and waking up early instead.

"If you want to shine like a sun then you must burn like a sun".

Chitra N
6th ISE

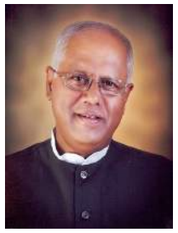


Late Sri.G.MALLIKARJUNAPPA
Honorable Member of Parliament

Founder's Perspective

Education is primarily a process of getting students to absorb new ideas and ways of thinking. The 21st century is witnessing radical transformation and the exuberant growth in the world of education, with quality implementation, where portal of global technology are open to and every student leading to improvement in quality of life. To face the global challenges of new millennium with the confidence that comes from knowledge, Srishyla Educational Trust has established GM Institute of Technology to reach the excellence and Technological progress. The Institution endeavor to provide Hi-tech education and aims at all-round development of personality.

Message by Honorable Member Of Parliament, Davangere



Encouraging creativity and motivating innovation are two important elements of a successful education, and the department magazine is the perfect combination of both. Hence, I am charmed to know that department's annual magazine 2017-18 "TECH KNIGHTS" is ready for its publication.

I take this opportunity to congratulate the editorial board for bringing out this magazine. May all our students aspire high in unexplored skies and bring dignity to the world and their profession with the feather of education! I wish my dear students success in all future efforts.

Sri. G M Siddeshwara

Message by Secretary

We are all proud that GMIT has completed eighteen academic years and enriched the lives and lifestyles of more than a thousand students and staff. We can humbly claim to have added to the professionalism of the hospitality industry in these years and will continue to do so in the years ahead.

I take this opportunity to congratulate the HOD, Dr. Sunil Kumar B S and his team of committed staff members for their commitment towards value based quality teaching and efforts put in to ensure that each student is cared for in the department.

The efforts of the staff and students are being published every year in magazine of ISE department "TECH KNIGHTS". In this regard, I send my greetings to the Editorial Board, Dept. Information Science & Engineering, for working on a Magazine best in all aspects for the academic year 2017-18.

This magazine will be a good source of guidance for faculty and upcoming batches of students in choosing activities of their choice in their future for building their career.

Sri. G M Lingaraju

Message by Chairman

I strongly believe that "Education is the soul of the society, so I always work towards the growth of our society which is the dream and vision of our Institution.

Now, this dream & vision has become into reality, it is a proud moment for us to see hundreds of students pursuing engineering education in GMIT and equipping themselves to become industry ready professionals for their successful career.

I am glad to know that the Department of Information Science & Engineering has conducted many activities to make them industry ready under the department forum "EXOTIC". All the conducted activities are recorded and documented in the department Magazine "TECH KNIGHTS" for the year 2017-18.

I am sure that this magazine will be informative and resourceful. On this occasion, I convey my good wishes to the Principal Dr P Prakash, HOD Dr. Sunil Kumar B S, students, faculty and staff of the department.

Sri. G.M. Prasanna Kumar

Message From The Principal

I am happy to understand that the department of Information Science and Engineering of our institute is bringing out its annual magazine 'Tech Knights 2017-18'. I am pleased to note that this issue is envisaging the creative/innovative write-ups from students on technical aspects.

It gives an opportunity to all students to express and reveal the updated information they have gathered. The magazine also contains the comprehensive news and achievements of the department for specified time span. A good collection of events conducted with documentation and images gives it a complete structure. A good indication of growth of the department. I wish good luck to everyone who were involved in making of this memorable creation.

Dr. P Prakash

Message from HOD

It's indeed a great pleasure to bring out 'Tech-Knights' – the technical magazine of Information Science & Engineering program. The magazine is intended to explore in-house talents by giving an opportunity to draw the attention of out-world to their write ups. Also the magazine draw the attention of people on the activities carried out by the department during 2017-18.

I congratulate the authors of various articles in the magazine and the editorial team for their constant effort in bringing out the magazine in a very systematic manner in the prescribed time period.

Thanks to the entire team of EXOTIC and the staff for their unconditional support in our endeavors.

With best compliments..

Dr. Sunil Kumar B S

Smile

Just imagine a world where everyone laughs and smiles at each other. How wonderful it is just to imagine! If it becomes true, then no need to soak up any heaven. This world will be a kind of heaven.

There is a very famous saying of Mother Teresa -"Peace begins with a smile".

Smile at someone you really don't want to smile at,do it for peace. So many years ago, she proclaimed this quote or statement. But it still echoes in everyone's mind. It has got a universal attention.Smile at the toughest situation u have been put in you get enough courage to cope up with it.

When we look at the genuine smile of a child, we cannot resist ourselves to take him or her in our arm or in a lap. It effects just like a magic. True love is also not possible without a true smile. Everyone looks beautiful and smart when he or she smiles. Even the ugliest person on the planet looks nice when he smiles. Smiles helps us to forget all our sorrows and grievances.

It seems how a smile can be peace in our life or around us. But believe me, this simple step can make a miracle if we take it less seriously. If everybody gives their bit by smiling, this simple step will turn into a big leap.

Peace begins with a smile, but get matured with kindness: We should bring qualities of compassion and kindness to inculcate peace in us permanently. A peaceful person is always a smiling person, but it may be possible that a smiling person may not be a peaceful person. As smile brings temporary peace in us. Smile just gives us a taste of peace. But it is not at all peace in a complete sense. But without beginning, there is no end. So let us all commence our journey of peace with a smile, no matter what is the object for the smile.

Let us all smile as peace begins with a smile, stay happy and make others happy!!

Respect Women

We live in such a world that has never been such at peace as it is today. We tell children to protect themselves ,that the boogeyman is always just behind the corner masked as a Muslim, Christian, Hindu, masked as the people you don't understand.

Women in India-a better half of Indian society, today are becoming the most vulnerable section as far as their safety and security is concerned.

Every single day single women, young girls, mothers from all walks of life are being assaulted. The streets, public transport, public spaces in particular have become the territory of the hunters. While the ones already hunted down, weep in silence or disdain, the rest fight their way to a basic life with dignity. "INDIA needs independence again, It was Jallianwala Bhag then and today it's about little girls".

- Sushma Sakaray
6th ISE.

Maa...

Many years ago, an angel was born today,
My guardian light, I'm the luckiest to have U, I say!

Through all these years, one thing I perfectly learnt,
You are the greatest blessing, I have ever earnt!

The bond we share, is much more than a best friend,
The love you show towards me is beyond the end!

U have held my hand, from playgroup where I joined crying,
Scolded me every time for the chocolates I was lying!

In all the bad times, when my hope went down to few,
U said, 'U can do it! Coz beti nahi, mera beta hein tu!'

My supporting shoulder in every situation u are,
The one who kept all the troubles from me, so far!

You are the one who understands me, when I don't even utter a word,
From all the troubling times, you protected me always like a sword!

Cheers to all the moments when u supported me instead of my behena,
Thank God! Though I was lying, tune maan liya mera kehna!

Scolding both your daughters when there were Tom and Jerry fights,
Taught us, what real love is, from your heart's light!

Maa! There's no one who can ever replace you,
Another name for sacrifice that is You!

Happy birthday my World !

- Harshith Tapse
6th ISE.

Bitcoin: Future Cryptocurrency

Third party image reference

Third party image reference

Bitcoin is a cryptocurrency and worldwide payment system, It is the first digital currency which works without a central bank or single administrator. The network is peer-to-peer and transactions take place between users to users directly without an intermediary.

These transactions are verified by network nodes through the use of cryptography(encryption and decryption) and recorded in a public distributed ledger called a blockchain. Bitcoin was invented by an unknown person or group of people under the name Satoshi Nakamoto and released as open-source software in 2009. Bitcoins aren't printed, like dollars or euros, they're produced by computers all around the world, using free software.

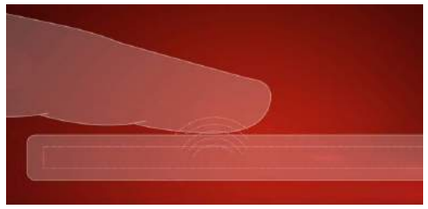
Bitcoin can be used to pay for things or materials electronically, if both business parties are willing to exchange cryptic currency. In that case it's like conventional dollars, euros, or rupees, which are also traded digitally.

But it differs from normal currency in many important ways:

- Limited Supply - Bitcoins are mined and available in limited count
- Decentralized - No single Company or Organization control Bitcoin Network
- Divisibility - The smallest unit of a Bitcoin is called a satoshi, it is one hundred millionth of a Bitcoin (0.00000001).
- Immutability - No transactions can be reversed.
- Pseudonymity - No user need get identified because their is no central authority.

-Prof. Firoz Khan
-Prof. Chandrashekhar MV

What is In-Display Fingerprint Scanner? How Does it work?



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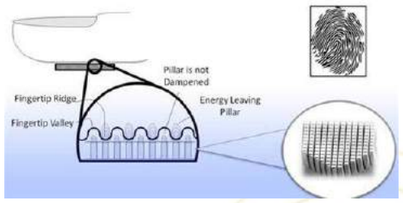


Third party image reference

Ultrasonic Fingerprint sensor actually come in three types, one for OLED displays, one for glass, and one for metal, qualcomm fingerprint sensor for OLED display can scan through a 1200 μm OLED display stack. The Glass variant can work through 800 μm while the Metal one goes through 400 μm of aluminum.

Many smart phone companies are in race to first present new technologies to smart phone users, VIVO has beaten samsung and apple in presenting first under display or in-display finger print scanner, as we found in many many reviews of vivo fingerprint scanner is slow as compare to normal fingerprint scanner, the competition is still open to have a efficient in-display fingerprint scanner.

-Prof. Firoz Khan
-Prof. Chandrashekhar MV

Alumni Message

Mr. Vinay Prasad D,
Aris global

Very friendly faculty but very strict when it is about academics and placements. Technically all faculties are having sound knowledge. Always available for students and for their problems regarding syllabus, academics, placements and co-curricular activities. Various technical workshops and competitions are conducted for students. Very good infrastructure is also provided, well equipped laboratories, department library, Exotic forum for students. Finally, IS&E is producing professionals & fine human beings to society.

IS&E is wonderful branch, we have well trained faculties who guide and support us in best possible ways . Glad for all encouragement and good placement records. Sincere thanks to Placement and training department for bringing many companies. Thank you. We had best exposure.

Ms. Prathibha T R
Torry haris

Ms. Deepa S A
Tech Mahindra

It was a great thing to be a part of IS&E department lecturers are too friendly and supportive in all the aspects whether it may be academic, cultural & co-curricular activities. Our department forum EXOTIC provides a platform to exhibit our talents. We had various placement activities conducted in our forum which helped us a lot during our placements and also in cracking the interviews and got successfully placed. Thanks to all the lectures and the Department of IS&E.

I am very grateful and thankful to our placement team who have done a wonderful job in getting fabulous companies to our college and giving us the right kick start needed. And ISE faculties always supports for new activities and events. Our lectures completes the syllabus at right time, so that it will help for preparation of exams. overall IS&E is good.

Mr. Santosh S G
Vee Technologies

About the Department

The department was established in the year 2001 with an intake of 60 students. The department is equipped with all necessary infrastructure and laboratory facilities. Keeping in view of the vision of the institute, the department of IS&E is working to achieve excellence in various aspects such as: student's performance, effective teacher-student relationship, imparting quality education to students, motivating faculty and students towards research and imbibing best human qualities in students.

The department has well established laboratories in the areas of Computing, Systems Programming, File Structures, Computer Networking, Microprocessor, Electronic Circuits, Data Structures, OOPS with C++, JAVA, Web Programming & Machine Learning.

The Department has a strong and active Forum EXOTIC helping in all-round development of the students through various Technical Workshops on Recent Technologies. In this regard various activities conducted during the academic year 2017-18 are as follows.

Odd Semester Activities.

Forum Activities

17-08-17: Importance of Forum by seniors for 3rd & 5th Semester Students

22/08/17: Forum Inauguration: Chief Guest: Dr. Shreedhara K.S, Professor, Dept. of CSE, UBDTCE, Davangere

31-08-17: Quiz

05-09-17: Teacher's day celebration

07-09-17: Model making for NCETERM - 17.0, Department events "Big Boss, Brainy Box & Engineer's Eye"

14-09-17: Cook without fire

28-09-17: Role Play on academic topics

12-10-17: Placement activity - Solving aptitude questions on logical reasoning by 7th semester students

12-10-17: Placement activity – " Solving aptitude Problems on Ages" by 7th semester students

02-11-17: Demonstration of how to develop DBMS mini project

Special Activity conducted

Advanced Java(15CS553): **Hands on Session**

Conducted by Naveen R C M on 5th September 2017.

Even Semester Activities.

Workshops

Two Day FDP on "Computer Network Simulation Using NCTUNs and Networking Concepts, Algorithms using C Programming" for faculty of various Colleges, from 11th to 12th January 2018.

Five Day "Bridge Course on OOPS with C++" for 4th semester students, from 5th to 9th February 2018.

One day workshop on "Ethical Hacking" for 4th & 6th semester students on 8th March 2018.

Five Day workshop on "Fundamentals of GUI Design using Java Swings" for 4th semester students, from 19th to 23rd March 2018.

Five Day workshop on "Applications Development for File Management using C++" for 6th semester students, from 25th to 30th April 2018.

Special Activities of Individual Subjects

Data Communication (15CS46) : **Role Play -** Conducted by Dr. Sunil Kumar B S on 6th March 2018.

File Structures (15IS62) : **QUIZ -** Conducted by Keerthi Prasad G on 6th April 2018.

MP & MC (15CS44): **QUIZ -** Conducted by Asha K on 21st April 2018.

Software Engineering (15CS42): **CHART Presentation -** Conducted by Naveen R C M on 23rd April 2018.

Python (15CS664) : **QUIZm -** Conducted by Firoz Khan on 25th April 2018.

Operating System (15CS64) : **QUIZ -** Conducted by Amith Shekhar C on 3rd May 2018.

Data Communication(15CS46) : **REVISION -** Conducted by Dr. Sunil Kumar B S on 10th May 2018

Operating Systems(15CS64) : **Role play -** Conducted by Amith Shekhar C on 10th May 2018

MP & MC (15CS44) : **Presentation on lab programs -** Conducted by Asha K on 15th May 2018.

Android App. Quiz Application

About the app

This app is an android application. It can be used to play technical quiz.

- It is developed using android studio 2.0.
- The programming languages required are Java (for logic), XML for layout design.
- This app consists of several multiple choice questions.
- The questions and answers are stored in an separate array after each answer question and answers will be incremented through a variable.
- Layout used in this app is a relative layout, so that all the components used are related to each other.
- User password and administrator password are required open this app.
- At last the user will get his score.
- It consist of two activity one is for login and other is for multiple choice questions.
- Intent is used to switch from one activity to other.

Sheshadri P S
6th ISE

How Much an Android Developer Costs These Days?

Over $69 billion was generated in global mobile app revenue in the year 2015 alone. Some estimates purport that by the year 2020 that number will nearly triple. It would be an understatement to suggest that the (already massive) mobile app market is growing exponentially. Advancements in both hardware and software have greatly decreased the cost of powerful smartphones, which has, in turn, caused them to proliferate rather rapidly. As more people use smartphones on an everyday basis, the demand for apps rises.

Currently, Android smartphones own the lion's share of the market. As of Q3 of 2016, Android predominated at an astonishing 86%. To put this number in perspective, iOS devices claim around 18% of the market share. Android smartphones are seemingly ubiquitous, and their domination of the smartphone market suggests an enormous built-in consumer base. What's more, the number of available Android apps surpassed the number of iOS apps, tallying over 1.6 million last year. It goes without saying that Android apps are in the very highest demand. It's no surprise that the developers who create them are highly sought after.

Android Developers are expensive. There's no way around it. In fact, they are only getting more expensive over time, recently experiencing a 66% wage increase. The average salary for an Android Developer in the US sits around $110,000 and the upper limits can reach as high as $155,000, cementing the job as one of the highest paying vocations in IT.

Freelance work can be cheaper, if outsourcing is an option. Android Developers in North America charge premium rates, ranging anywhere from $100 to $150 per hour, and are by far the most expensive. Contractors from Eastern European countries, such as Ukraine, would net around half that price at an average going rate of approximately $40 to $50 per hour. Android Developers based out of India are some of the cheapest, charging only $20 per hour on average. Thus, if outsourcing is indeed an option, the cost of an Android Developer is extremely variable.

Even considering the possibility of outsourcing Android Developers, app development takes time, and expenses have a tendency to ramp up. The simplest apps will take at least 300 hours to complete, with larger, feature-rich apps ranging anywhere from 600 to 900 hours to complete. Let's say a simple app utilizing a competitively priced freelancer from India would run you around $6,000 to complete, if we eliminate marketing, UI/UX and other costs for the sake of simplicity. The larger more robust app, if you were to use a programmer from Eastern Europe, would cost $45,000. Both of these figures seem like bargains when compared to the cost of a large-scale app created by North American developers: a stupefying $135,000. Regardless, Android Developers will need a large segment of time to complete meaningful projects, so even the simplest apps created by freelancers charging the most competitive rates will cost thousands of dollars.

As illustrated above, the mobile app market shows no signs of slowing. As Android app development surges, so too does demand of skilled developers. Android Developers are not particularly expensive relative to their iOS counterparts, but are seeing faster growth, which may widen the pay gap further. This trend won't likely stop anytime soon as Android's share in the mobile market continues to increase.

Developing compelling apps in a flooded market requires skilled Android Developers. Talented freelancers and experienced full-time employees will cost you, at the very least thousands of dollars. In the future, we could expect those numbers to be driven up further. Outsourcing developers may be a solution for those seeking to cut expenses, but others may find the best option resides locally, and may prefer to pay premium rates. Whatever the strategy, you must be prepared for a sizable cost -- and timetable.

Rakshitha A C
8th ISE

Even Semester Activities.

Forum Activities

Seminar on "Knowledge Discovery and Data Analytics" by Nasreen Taj M.B., for 6th semester students on 8th February 2018.

"Pick and Speak" for 4th semester students on 15th February 2018.

"NPTEL Video" displayed for 4th semester students on 15th February 2018.

"Debate Competition" for 4th & 6th semester students on 22nd February 2018.

"Paper Collage" for 4th & 6th semester students on 22nd February 2018.

Placement activity "Soft Skills Training Program" on 22nd March, by Training and Placement officer, RYMEC, Bellary.

"Forum Valedictory" on 16th May 2018.
Chief Guest: Mr. Bhargav B N, Sr. Business Analyst, General Electricals, Bangalore.

Industrial Visits

GM Agro and Beverages Pvt. Ltd. Davangere. for 6th semester students on 15th February 2018

Grasim Industries Ltd. Harihar for 6th semester students on 17th February 2018.

Cargill India Pvt. Ltd. for 8th semester students on 22nd March 2018.

GM Global Pvt. Ltd. for 6th semester students Bangalore., on 7th May 2018

Project Exhibition

All the projects of our final year students are exhibited in the Project Exhibition 2017-18 on 5th May 2018.

Along with these activities, many of our students participated in national & international paper presentation competitions held at various colleges in the Karnataka. Students are also participated in co-curricular and sports activities conducted throughout the year. Extensive placement training are conducted to improve employability of the students and 29 students got placed in different companies in the campus recruitments. The faculties of the department are actively involved in research activities in various domains.

Second Year Students

4GM16IS002	AISHWARYA U M	4GM16IS036	SHAILAJA P K
4GM16IS004	AMULYA M	4GM16IS039	SHRUSTI RAVINDRA DODAMANI
4GM16IS005	ANKITHA N R	4GM16IS040	SIDIQHA IRFAN
4GM16IS006	ANUM M R	4GM16IS041	SIRI M S
4GM16IS008	APOORVA SUTTAKOTI	4GM16IS042	SMITHA D A
4GM16IS009	APOORVA V H	4GM16IS043	SOUJANYA M S
4GM16IS010	ASHA K	4GM16IS044	SPOORTHI
4GM16IS011	CHAITRA P REVANAKAR	4GM16IS045	VEENA H M
4GM16IS012	CHANDANA G S	4GM16IS046	VINITHA V B
4GM16IS013	CHETAN S M	4GM16IS047	YASHAS S
4GM16IS015	GEETHA L	4GM16IS048	YASHASVINI C M
4GM16IS016	GREESHMA P S	4GM16IS049	ARCHANA K M
4GM16IS017	KARTHIK K	4GM16IS050	CHIRANTH N
4GM16IS018	KEERTHANA T	4GM16IS051	KARTHIK M HIREMATH
4GM16IS019	LAVANYA C	4GM16IS052	KAVYASHREE K M
4GM16IS020	MANIKYA B V	4GM16IS053	MANASA A NAIK
4GM16IS021	MEGHANA A H	4GM16IS055	MANOJ C B
4GM16IS022	MEGHANA B H	4GM16IS056	MOHAMMED AQIB I
4GM16IS024	NANDINI G J	4GM16IS058	PALLAVI H J
4GM16IS025	NETRAVATI GULAPPA B	4GM16IS059	R SAI SHASHANK
4GM16IS026	POOJA KALLAPPA A	4GM16IS061	SHIVANAGOWDA R PATIL
4GM16IS027	PRIYANKA P VERNEKAR	4GM16IS062	SINDHU P R
4GM16IS028	R TEJASHWINI	4GM16IS063	VINUTHA M P
4GM16IS029	RAHUL B S	4GM15IS023	NAGMA BANU
4GM16IS032	RAKSHITHA U S	4GM15IS049	SINDHU B PAWAR
4GM16IS033	RANJITHA H G	4GM14IS043	RAKSHA H R
4GM16IS034	REKHA D M	4GM17IS400	ROOPA S
4GM16IS035	SANA ANJUM	4GM15IS061	MOHAMMED YASEEN

WHY 5G????

The fourth generation wireless communication (4G) systems have been deployed or are soon to be deployed in many countries. However, with an explosion of wireless mobile devices and services, there are still some challenges that cannot be accommodated even by 4G, such as the spectrum crises and high energy consumption. Wireless system designers have been facing the continuously increasing demand for high data rates and mobility required by new wireless applications and therefore have started research on fifth generation (5G) wireless systems that are expected to be deployed beyond 2020. The main purpose of 5G is planned to design the best wireless world that is free from limitations and hindrance of the previous generations. 5G is going to change the way most high bandwidth users access their mobile radio communication. Therefore, this paper presents why there is a need for 5G, advantages, and challenges. Moreover, a comprehensive study related to 5G has been presented.

Challenges

One of the most crucial challenges is the physical scarcity of radio frequency (RF) spectra allocated for cellular communications. Cellular frequencies use ultra-high-frequency bands for cellular phones, normally ranging from several hundred megahertz to several gigahertz. There frequency spectra have been used heavily, making it difficult for operators to acquire more.

Another challenge is that the deployment of advanced wireless technologies comes at the cost of high energy consumption. The increase of energy consumption in wireless communication

systems causes and increase of CO_2 emission indirectly, which currently is considered as a major threat for the environment. Moreover, it has been reported by cellular operators that the energy consumption of base stations (BSs) contributes to over 70 percent of their electricity bill. In fact, energy-efficient communication was not one of the initial requirements in 4G wireless systems, but it came up as an issue at a later stage. Other challenges are, for example, average spectral efficiency, high data rate and high mobility, seamless coverage, diverse quality of service (QoS) requirements, and fragmented user experience (incompatibility of different wireless devices/interfaces and heterogeneous networks).

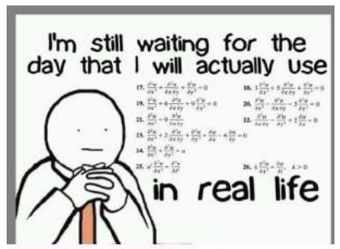
Why is there a need for 5G?

The main difference, from a user point of view, between current generation and expected 5G system must be something else than increased maximum throughput; other requirements include.

- Lower battery consumption.
- Multiple concurrent data transfer paths.
- Lower outage probability; better coverage and high data rates available at cell edge.
- 1Gbps (and higher) data rate in mobility.
- More secure; better cognitive ratio/Software-Defined Radio(SDR).
- Higher system level spectral efficiency.
- Not harmful to human health.
- Wearable devices with Artificial Intelligent (AI) capabilities.
- Cheeper traffic fees due to low infrastructure deployment costs.
- Smart beam antenna systems.
- World Wide Wireless Web (WWWW), wireless-based web applications that include full multimedia capability beyond 4G speeds.
- Improved and innovative data coding and modulation techniques, which includes filter ban multi-carrier way in schemes.

Chinmayi Kulkarni
8th ISE

Technical Articles
Poems, Sayings, Jokes,
Short Stories & Art Gallery



Third Year Students

4GM15IS001	AKSHATA M G
4GM15IS002	AKSHATHA.C.S
4GM15IS003	AMRUTHA C
4GM15IS004	ANCY ELIZABETH
4GM15IS005	ANIL S H
4GM15IS006	ANISHA H Y
4GM15IS007	ANUSHA G R
4GM15IS008	ANUSHA R KOTUR
4GM15IS009	ARSHIYA TABASSUM
4GM15IS010	BHUMIKA B ONKARI
4GM15IS012	GOWTHAMI.G.R
4GM15IS015	HARSHITHA TAPSE
4GM15IS016	INDU P M
4GM15IS018	KIRAN B HEGDE
4GM15IS020	MEGHA K M
4GM15IS021	MEGHA S G
4GM15IS022	MEGHANA G S
4GM15IS024	NARAYANARADDI B B
4GM15IS027	OJASHWINI N B
4GM15IS028	PALLAVI N HEGDE
4GM15IS031	POOJA G S
4GM15IS032	PRAJWAL P JAIN
4GM15IS033	PRAKRUTI K S
4GM15IS034	PRAVEEN NAGARAJ K
4GM15IS035	RAGHAVI K
4GM15IS037	RAKSHITA K.M.
4GM15IS039	RASHMI P V
4GM15IS040	S.P.VARUNI
4GM15IS041	SACHIN GOWDA H
4GM15IS043	SAHANA K S
4GM15IS044	SAHANA R RAYKER
4GM15IS046	SHESHADRI P S
4GM15IS047	SHILPA.B M
4GM15IS048	SHRINIDHI T
4GM15IS050	SNEHA G D
4GM15IS051	SOWMYA BENNUR
4GM15IS052	SRIDEVI S V
4GM15IS053	SUSHMA R SAKARY
4GM15IS054	SUSHMA S HEBBALAKAR
4GM15IS055	SUSHMEENDRA N RAO
4GM15IS056	SYED MEENAZ
4GM15IS057	TEJASWINI.Y.C
4GM15IS058	VIDHYA B S
4GM15IS059	PAVITHRA E
4GM15IS060	GAGAN S
4GM14IS012	BHUVANA B M
4GM14IS021	GREESHMA
4GM16IS400	ARPITHA H E
4GM16IS401	AYESHA S
4GM16IS402	JAYASHREE
4GM16IS403	RAKESH

Final Year Students

4GM14IS001	ABHILASH G P
4GM14IS002	AISHWARYA V JADHAV
4GM14IS003	AMRUTHA T
44GM14IS006	ANUSHREE B M
4GM14IS007	APOORVA M
4GM14IS008	ARPITHA B S
4GM14IS010	BASAVARAJ G V
4GM14IS013	BINDU H S
4GM14IS015	CHANDU SANJITH T
4GM14IS016	CHINMAY KULKARNI
4GM14IS017	DEEKSHIT TALAVAGALU MATAD
4GM14IS018	DIXIT R JAIN
4GM14IS020	GEETHA A B
4GM14IS022	HARSHALA S
4GM14IS023	KAVYA H C
4GM14IS024	KAVYASHREE P N
4GM14IS025	KRISHNA CHAITANYA H S
4GM14IS026	KRUTHIKA G R
4GM14IS027	LIKITHA K
4GM14IS028	MADIHA FATHIMA
4GM14IS029	MEGHANA D P
4GM14IS030	MEGHANA M
4GM14IS031	MEGHANA P PAWAR
4GM14IS032	NAGALAXMI SURESHKUMAR B
4GM14IS034	NAVYA T N
4GM14IS035	NAYANA K A
4GM14IS036	NAYANA R R
4GM14IS038	PALLAVI K
4GM14IS040	PAVAN KUMAR P SHIMPI
4GM14IS042	RADHIKA M V
4GM14IS044	RAKSHANDA B KULKARNI
4GM14IS045	RAKSHITA A C
4GM14IS046	RAMYA K
4GM14IS048	RANJITHA G P
4GM14IS049	RASHMI M G
4GM14IS050	SAGAR
4GM14IS052	SHREEJA M
4GM14IS053	SHRIGOWRI V B
4GM14IS054	SUJATA GANGANA GOUDAR
4GM14IS055	SUMA S
4GM14IS057	SWETHA K M
4GM14IS058	SYEDA AYESHA
4GM14IS059	VINUTHA K
4GM14IS061	PAVITRA P B
4GM15IS400	NIKITA V P
4GM13IS026	NIVEDITHA S S
4GM13IS027	POOJA H
4GM13IS045	VANITHA P
4GM13IS019	KULDEEP CHAUH AN

Faculty Responsibilities

Name & Photo	Designation	NBA Criterion Coordinator	Other Responsibilities	College Level Responsibilities
Mr. Prakash T.K	Instructor	NBA	Design Work, Magazine, News Letter	Hostel/Chief Warden
Mr. Monohar P.N	Programmer	NBA	ERP, Online Updating, Website, Workshops.	Academics
Mr. Praveen V.A	Instructor	NBA	Department News	Eco-friendly Campus

Faculty Responsibilities

Name & Photo	Designation	NBA Criterion Coordinator	Department Level Coordinator	College Level Coordinator
Dr. Sunil Kumar B S	Professor & Head			Academic Dean Mallika Co-ordinator,
Tejasvi Kattimani T.R	Assistant Professor		Training & Placement	Industry Institute Interactions
Nasreen Taj M.B	Assistant Professor	Criterion 5	Forum, Technical Seminar, Sports & Cultural, Mallika Youth Fest	Hostel/Chief Warden, Women Empowerment Cell
Imran Khan	Assistant Professor	Criterion 6	Academic, Alumni Coordinator, 4th Semester Class Teacher	IQAC, Department Academic Coordinator, Infrastructure.
Chandrashekhar M V	Assistant Professor	Criterion 7	VTU, AICTE, Website, EMS, Industry Institute Interactions, 6th Semester Class Teacher	OBE / CEP
Asha K	Assistant Professor	Criterion 4	Academic Project, Magazine, Newsletter, Display (Notice Board, HOD Chamber etc.)	Intellectual Property Rights (IPR), Women Empowerment Cell.
Naveen R C M	Assistant Professor	Criterion 9	Workshop, FDP, Conference, Delta, 8th Semester Class Teacher, NSS	Eco-friendly Campus, Societal Missions, Non Conventional energy.
Neelambike S	Assistant Professor	Criterion 2	Dept. Library, R & D	R & D
Keerthi Prasad G	Assistant Professor	Dept. NBA Coordinator	Academic Project, NBA, ERP	NBA/NAAC/ISO
Firoz khan	Assistant Professor	Criterion 1	Time table, IA Time table, Counseling, CAPA, Progress Reports, Publicity, Admission	Public Relation, Discipline & Control
Amith Shekhar C	Assistant Professor	Criterion 3	Placement, Forum, Sports & Cultural, Mallika Youth Fest.	Student Welfare

Student's Achievements-Odd Semester

Name of the Student	Events	Date	Prize
Sana Anjum, 3rd Semester	**"Engineer's Eye"**, 14th State Level ISTE Students Annual Convention. GMIT, Davangere	08/09/2017 09/09/2017	**II Prize,**
Kiran B Hegde, Sushmeendra N Rao, 5th Semester	Technical Paper Presentation, **" IOT Based Intelligent Street Lighting System for Smart City"**, 14th State Level ISTE Students Annual Convention & 5th National Conference On Emerging Trends in Engineering Research & Management (NCETERM) -2017. GMIT, Davangere	08/09/2017 09/09/2017	**II Prize,**
Prajwal P Jain, Sheshdri, 5th Semester	**"Code Pirates",** 14th State Level ISTE Students Annual Convention. GMIT, Davangere	08/09/2017 09/09/2017	**II Prize,**
Harshitha Tapse, 5th Semester	Technical Paper Presentation –**"PRIBOTS – A Virtual Conversational Interface Agents",** "Thinking Engineers – 07" CADD Centre, Davangere	16/09/2017	**II Prize,**
Sushma R Sakary, Sowmya Bennur , 5th Semester	Technical Paper Presentation – **"Natural Language generation using pictographs"** "Advitiya'17, National Level Technical Fest, KLEIT, Hubballi.	06/10/2017 07/10/2017	**III Prize,**
Harshitha Tapse, 5th Semester	Technical Paper Presentation –**"PRIBOTS – A Virtual Conversational Interface Agents"** "Advitiya'17, National Level Technical Fest, KLEIT, Hubballi.	06/10/2017 07/10/2017	**I Prize**

Even Sem Toppers

1st Topper
Sowmya Bennur
4GM15IS051
SGPA: 8.71

2nd Toppers
Pallavi N Hegde, Ancy Elizabeth
4GM15IS028, 4GM15IS004
SGPA: 8.43

3rd Topper
SUSHMA R S
4GM15IS053
SGPA: 8.14

1st Topper
Dixit R Jain
4GM14IS018
80.56 %

2nd Topper
Kavyashree P N
4GM14IS024
76.33%

3rd Topper
Rakshita A C
4GM14IS045
76.22%

1st Topper
Harshitha C M
4GM13IS015
83.87 %

2nd Topper
Vinutha D
4GM13IS048
81.20 %

3rd Topper
Rachana R Puranik
4GM13IS031
80.93%

Odd Sem Toppers

1st Topper
RAHUL B S
4GM16IS029
SGPA: 8.29

2nd Topper
RAKSHITHA U S
4GM16IS032
SGPA: 7.86

3rd Topper
SHAILAJA P K, SPOORTHI
4GM16IS036, 4GM16IS044
SGPA: 7.57

1st Topper
ANCY ELIZABETH
4GM15IS004
SGPA: 8.69

2nd Topper
HARSHITHA TAPSE
4GM15IS015
SGPA: 8.23

3rd Topper
RAKSHITA K.M., SUSHMA R S
4GM15IS037, 4GM15IS053
SGPA: 8.15

1st Topper
GEETHA A B
4GM14IS020
78.56 %

2nd Topper
NAVYA T N
4GM14IS034
76.36 %

3rd Topper
KAVYA H C
4GM14IS023
75.56 %

Student's Achievements-Even Semester

Sushma R Sakary & Sowmya Bennur of 6th Semeste, presented a paper – "Natural Language generation using pictographs", in "Technie-18", State Level Technical Fest, JIT, Davangere, on 23rd & 24th February 2018 & won 1st Prize.

Kavyashree & Spoorthi of 4th Semester presented a paper "Traffic Light Detection for Color Blind Individuals", in "Tech Aspire 2k18", State Level Technical Fest, UBDTCE, Davangere., on 26th March 2018 & won 3rd Prize.

Kavyashree of 4th Semester presented a paper "Extraction of Text Character from Stone Inscriptions using Character Spotting algorithm" in "Kaushala" 2018, UBDTCE, Davangere, on 9th April 2018 & won 1st Prize

Anusha G R, & Arpitha H E of 6th Semester presented a paper – "IoT Based on Intelligent Street Lightening System for Smart City" in "Tech Aspire 2k18", a State Level Technical Fest, UBDTCE, Davangere, on 26th March & won 2nd Prize.

Sowmya Bennur of 6th Semester presented a paper – "Natural Language Generation using Pictographs" in "Tech Aspire 2k18", a state level technical fest, UBDTCE, Davangere, on 26th March & won 1st Prize.

Prajwal P Jain of 6th Semester participated in the event "Coding & Debugging" in "Tech Aspire 2k18",a State Level Technical Fest,UBDTCE, Davangere, on 27th March & won 3rd Prize.

Sushma S Hebbalkar of 6th Semester participated in the event "Coding & Debugging" in "Tech Aspire 2k18", a State Level Technical Fest,UBDTCE, Davangere, on 27th March & won 2nd Prize

Kavyashree of 4th Semester students presented a paper "Extraction of Text Character from Stone Inscriptions using Character Spotting algorithm", in SKV College, Lakshmeshwara, a Natinal Level Technofest, on 5th April 2018 & won 1st Prize.

Prajwal P Jain of 6th Semester participated in the event "Bug Master" , in "Technical Fest", BIET, Davangere, on 11th April 2018 & won 2nd Prize.

Dixit R Jain of 8th Semester participated in the event "Bug Master" , in "Technical Fest", BIET, Davangere, on 11th April 2018 & won 1st Prize.

Dixit R Jain of 8th Semester participated in the event "C-Greeks", Technical Fest, BIET, Davangere, on 28th April 2018 & won 2nd Prize

Outcome:

1. Presenting paper brings out the stage fear & improve the communication skills of students.
2. Students explore the hidden talent in them & broaden depth of knowledge relating to that field.
3. Makes students updated with recent technologies.
3. Students will learn in detailed about a core subject which is part of curriculum and develop effective Presentation skills.
4. Students will be awarded with a certificate and it helps at the time of interview & placements.

Student's Achievements-Even Semester

Paper Presentation by Final Year Project Batches at ICRIT 2k18, SDMIT, Ujire, on 18/05/2018

Kruthika G.R , Likitha K & Radhika M.V presented a paper "Human Resource Management System", under the guidance of Mr. Imran Khan .

Sagar.H.L, Geetha.A.B, Harshala.S & Shreeja.M presented a paper "Smart billing and invoicing software for small and medium enterprise", under the guidance of Mr. Chandrashekhar M V.

ChanduSanjith. T, Pooja H, Nivedita S & Nikitha V P presented a paper "Smart billing and invoicing software for small and medium enterprise", under the guidance of Mrs. Asha K.

Aishwarya V, Abhilash G.P, Kavyashree P.N & MadihaFathima, presented a paper "Targeting and scheduling of advertisement to maximize revenue", under the guidance of Mr. Tejasvi Kattimani T R

Apoorva M, Meghana M, Pavan Kumar P S & Rakshanda B K , presented a paper "An intelligent opinion miner – abhipraya ganigaara", under the guidance of Mr. Firoz Khan. This project is awarded as " Best Project " in project exhibition 2017-18.

Shrigowri.V.B, Swetha.K.M, Syeda Ayesha & Vinutha, presented a paper "Travel Bot",under the guidance of Mr. Firoz Khan.

MeghanaPawar, Nagalaxmi S B & Navya T N, presented a paper "Blending Multiple Images into Morphed Image by 3D Gestures", under the guidance of Mr. Imran Khan.

Arpitha B S, Ramya Kashi K S, Sujata G & Suma S, presented a paper "A novel regional transport office (RTO) system approach for vehicle identification", under the guidance of Mr. Naveen R C M.

Kavya H C, Meghana D P, Nayana R R & Bindu H S, presented a paper "Nikhara Krushi", under the guidance of Mrs. Nasreen Taj M B.

Dixit R Jain, Krishna Chaitanya, Rashmi M G & Vanitha P, presented a paper "Magic Mirror – an intelligent tool for elderly people", under the guidance of Mr. Keerthi Prasad G. This project is selected for KSCST.

Basavaraj G V, Deekshith T M & Kuldeep C presented a paper "Sahaya Hasta", under the guidance of Mrs. Neelambike S.

Paper Presentation by Final Year Project Batch at NCACIT-18, D Y Patil College of Engineering, Pune.09/02/2018

Rakshitha A C , Ranjitha G P, Chinmay Kulkarni & Pavithra P B, presented a paper "A Load Balancing & Multi-Tenancy Oriented Data Center Virtualization Framework", under the guidance of Mr. Amith Shekhar C & is awarded as Best Paper.