



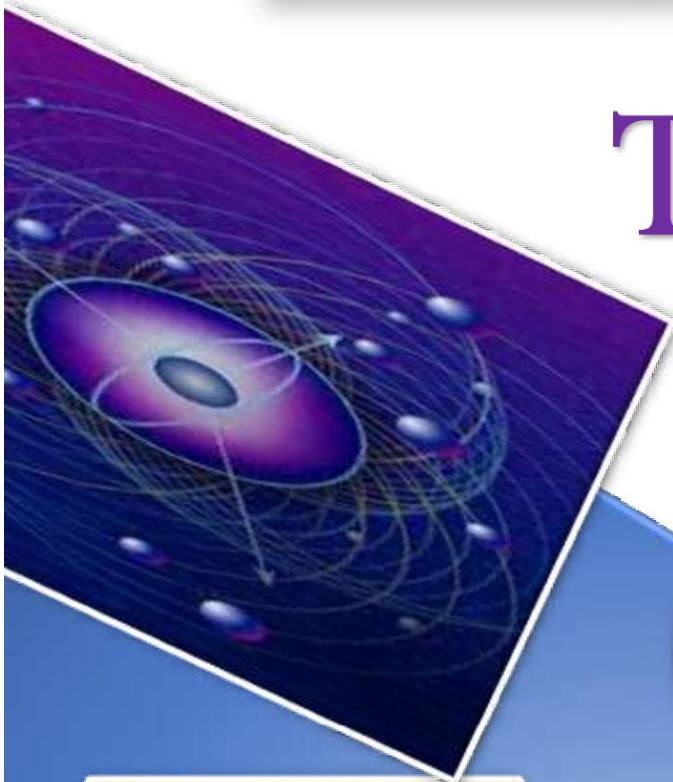
Department of Information Technology

PRESENTS

THE QUBIT

Departmental e-Magazine

September 2021



RAJKIYA ENGINEERING COLLEGE AMBEDKAR NAGAR

GOVERNMENT ENGINEERING COLLEGE APPROVED BY AICTE & AFFILIATED TO DR.
APJAKTU, LUCKNOW (COLLEGE CODE: 737)

First Edition

recabn.ac.in

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Prof.(Dr.) Sandeep Tiwari

Members



Prof. Vineet Kansal



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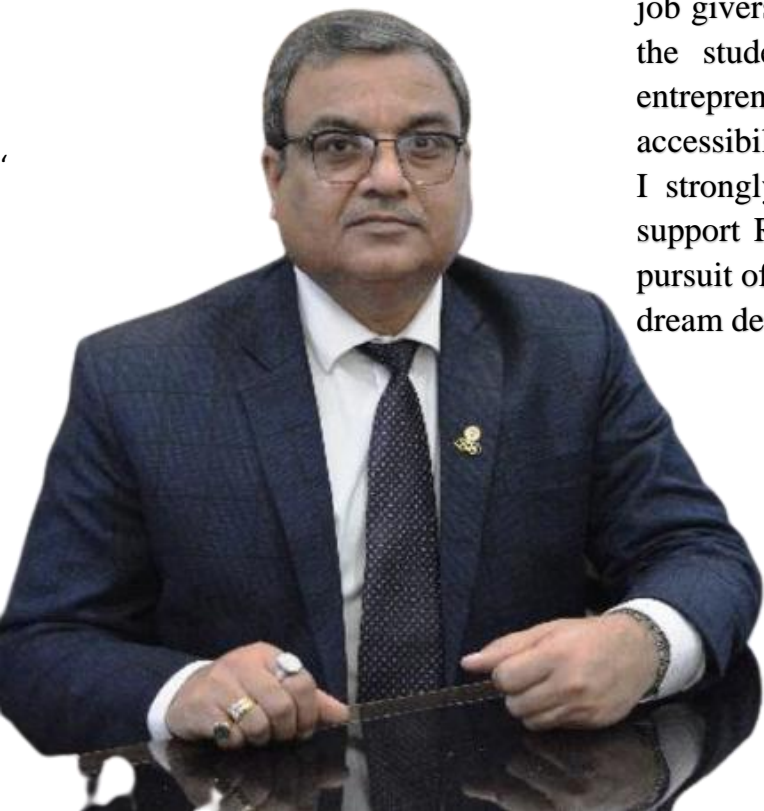
Rajkiya Engineering College (REC), since inception in the year 2010, has reached new echelons in all areas of functionality showing positive growth trend in academic discourse over the years. The motive has always been to attain the global level of excellence in scientific and technical education, fostering research, innovation, leadership qualities and entrepreneurial attitude, contributing to the advancement of the society and mankind.

We at REC consistently provide an academic and social environment that stimulates academic excellence imbued with cross cultural adaptability, flowering of soft skills and integration of human values & social concerns among students. In order to attain these multi facet objectives we have taken a number of steps aimed at developing the budding Engineers. This includes crafting of teaching learning modules in line with AKTU curriculum, floating of significant number of value-added programs on advanced knowledge domains and facilitating infrastructural support for incubation & innovative entrepreneurship. All these activities are effectively promulgated by highly qualified and well experienced faculties with high degree of precision.

Rajkiya Engineering College is committed to focus on cutting edge technology, innovations & creativity and hands on learning with an objective to convert the students from being job seekers to become job givers. In line with this philosophy, we act as a bridge between the students and various government organizations promoting entrepreneurial culture through their training programs, easy accessibility and funding support from time to time. I strongly believe that with the kind of impeccable system and support REC provides, we shall continue to create benchmarks in pursuit of achieving academic excellence and shall soon emerge as a dream destination for Engineering aspirants.

Best wishes!!!

Prof. (Dr.) Sandeep Tiwari
Director





The aim of the department is to be center of excellence in the information technology which will produce globally competent engineers with the moral values and technical skills for the betterment of the society. We groom our students according to the needs of the industry. We provide real life projects to our students where they can apply intuitive, imaginative and creative ideas to find appropriate solutions to the challenges faced by our society. We open frontiers of technical knowledge and reveal new horizons of change, to broaden mind-sets of our students. Apart from the study, our students are also engaged in various cultural, sports and literary activities throughout the year.

The Department has highly qualified faculty that provides a perfect base for raising students into true engineers that can adapt to changing industrial trends. Our faculty are at the forefront of technical education and cutting-edge research, creating thought-provoking and challenging programs for our students.

I wish all our students success in sharing knowledge, ideas and solving important societal needs and issues. It is my sincere endeavor to provide suitable environment- with transparency, impartiality and fairness to all the students of the department so that all can work in responsible and coordinated manner with their full potential to make it possible to fulfil all challenges. I am sure that, working as a team, we would be able to take our department to the pinnacle of its glory.

Dr. Sudhakar Tripathi
Head of Department (IT)



ABOUT THE MAGAZINE



We are delighted to present you the first edition of “The QUBIT” monthly e-magazine by the Department of Information Technology, REC Ambedkar Nagar. The QUBIT covers student articles and showcase department activities on monthly basis. This magazine is the reflection of the imagination and creativity of the students who are involved in multifarious activities. The students can share their knowledge and ideas through this medium.

We are very proud of the work displayed here by the writers, photographers, and designers who made this issue possible. We hope you enjoy reading these articles.

----FROM THE QUBIT TEAM

VISION OF THE COLLEGE



To attain the global level of excellence in scientific and technical education, fostering, research, innovation, leadership qualities and entrepreneurial attitude, contributing to the advancement of the society and mankind.

MISSION OF THE COLLEGE



- ❖ To create an ambience for new idea, research, innovation and entrepreneurial attitude, with a high level of ethics, communication and leadership qualities.
- ❖ To enhance knowledge and skills of students in science, technology and human behavior that will serve the nation.
- ❖ To develop ability and passion to work wisely, creatively, and effectively in each member of college for the betterment of the mankind and all living beings.



Department **Mission & Vision**



To be center of excellence in the information technology which will produce globally competent engineers with the moral values and technical skills for the betterment of the society.

- ❖ To create an environment for engineering knowledge and innovative research.
- ❖ To groom our students with the quality of leadership and communication skills by working on real life projects.



Program Educational Objectives of Department

PEO-1

To identify, formulate and solve contemporary computing problems of multiple disciplines by applying their knowledge of mathematics, information technology, and emerging technologies.

PEO-2


To apply the principles of software project management to develop innovative real world projects.

PEO-3

To improve their technical and professional skills through value addition programs and self-learning to develop a long term productive career in industry, government or academia.

PEO-4

To understand their professional, ethical, legal, and social responsibilities and contribute for the betterment of the society through active engagement with professional societies, schools, civic organizations or other community activities.



**Program
Educational
Objectives
(PEO)**

Program Outcomes of Department (POs)



PO1: Engineering Knowledge

Apply the knowledge of mathematics, including discrete mathematics, probability, statistics and fundamentals of various engineering disciplines like computer science and engineering, electronic engineering and electrical engineering in the core information technologies.

PO2: Problem Analysis

Analyze a problem and identify the computing requirements appropriate to its solution.

PO3: Design/development of solutions

Design and implement hardware and software systems, components, process or program to meet the desired needs within reasonable economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability constraints.

PO4: Conduct investigations of complex problems

Reassess literature and indulge in research to use research based knowledge and methods to design and conduct new experiments, as well as to organize, analyze and interpret data to produce draw valid conclusions and recommendations.

PO5: Modern tool usage

Use appropriate techniques, resources, and modern engineering and IT tools necessary for computer engineering practice.

PO6: The engineer and society

Show the understanding of local and global impact of computing on individuals, organizations and society.

PO7: Environment and sustainability

Integrate IT-based solutions in environmental contexts, and demonstrate the knowledge of need for sustainable development.

PO8: Ethics

Demonstrate the knowledge of professional and ethical responsibilities along with the norms of the engineering practice.

**PO9: Individual and Team
work**

Demonstrate leadership and an ability to work as a member with responsibility to function on multi-disciplinary teams to accomplish a common goal.

PO10: Communication

Demonstrate effective communicate skills in both oral and written form with a range of audiences.

**PO11: Project
Management and Finance**

Apply the knowledge and understanding of engineering and management principles to design, plan, budget and propose IT project for an identified need within a specific scope.

PO12: Life Long learning

Develop confidence to acquire new knowledge in the computing discipline and to engage in life-long learning.

Program Specific Outcomes (PSOs) of Department

PSO1

Gain detailed Knowledge of various contemporary domains to identify research gaps and hence provide solutions by new ideas and innovations.

PSO2

Have strong skills in learning new programming environments as it is used to automate things and simplify real world problems and human efforts.



Department Coordinators



Dr. Ashish Kumar Mishra
(For Final Year)



Mr. Shivendra Kumar Pandey
(For Third Year)



Mr. Sharad Verma
(For Second Year)



Mr. Prince Rajpoot
UG Coordinator

Class Representatives ★ ★

Second Year



SAURABH VERMA



ADITI JAIN

Third Year



NOOR MOHAMMAD



AKANSHA

Final Year



VISHESH KUMAR SINGH

Inside limpbc

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1. Departmental Events



September 5, 2021
Online Mode



Programme Chair
Prof.(Dr.) S.N. Upadhyay



Guest of Honour
Prof. Vineet Kansal, VC AKTU



Chief Guest
Shri Samuel Paul N.
(DM, Ambedkar Nagar)



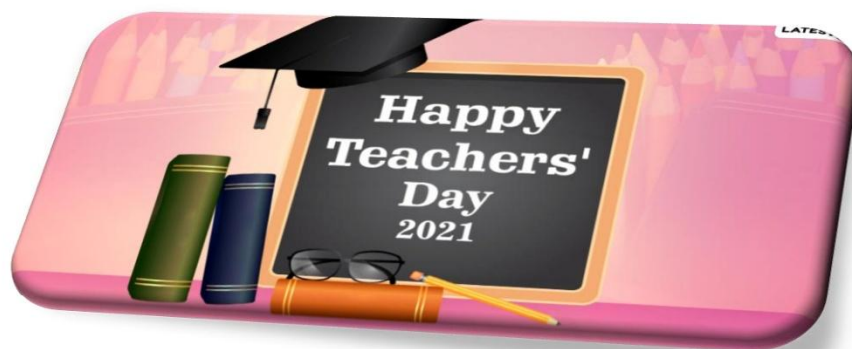
Guest of Honour
Shri Indra Mani Shukla
President Bar Association,
Ambedkar Nagar



Director
Prof.(Dr.) Sandeep Tiwari

“ If a country is to be corruption free and become a nation of beautiful minds. I strongly feel there are three key societal members who can make a difference. They are the father, the mother and the teacher.”

- Dr. APJ Abdul Kalam



We,

The Students (IT 3rd Year),

Wishing our honorable Director Sir, all respected HODs Sir and faculties,

A very joy and happiness on the occasion of

TEACHER's DAY !

“It has been an honour to get to learn so many things from you. Your kind words inspire us everyday.”

! THANK YOU !

हिंदी दिवस(14 सितंबर, 2021)

हिंदुस्तानी की मौजूदगी की परिभाषा है हिंदी,
दिल के सबसे करीब रहने वाली भाषा है हिंदी,
बातों बातों में प्रेम होने की आशा है हिंदी,
समस्त जगत में सदभावना की अभिलाषा है हिंदी ||1

सुनें तो, दिलो की आवाज़ है हिंदी,
महसूस करें तो, भारत का ताज है हिंदी,
शामिल करें खुद में तो, आत्मा के साथ है हिंदी,
यूँ कहें तो, बातों में, अमृत सी मिठास है हिंदी ||2

हिंदी और हिंदुस्तानी का रिश्ता एक ,सुन्दर घटना के माध्यम से आपको
बताना चाहता हूँ।

हिंदी दिवस के अवसर पर , एक बार, भारतीय राजदूत से किसी विदेशी दूत
ने पूछा ,
की हिंदी और हिंदुस्तानी में क्या रिश्ता है, भारतीय दूत, विदेशी दूत को
जबाब देते हुए कहते हैं।

अगर,
हिंदुस्तानी, हिंदुस्तान के लिए दिल की तरह हैं,
तो निश्चित तौर पर, हिंदी, हिंदुस्तानी के दिल की धड़कन की तरह है।।

चाँद भी दीवाना है जिसकी शीतलता का,
जिसमे समाया है तेज़, सूरज सा,
जगत में जगमगाता ये भाषा, माथे की बिंदी सा,
भाषाओं में कोहिनूर सा नूर है, हिंदी का ।।

धन्यवाद

जय हिन्द, जय हिंदी

मित्रसेन यादव, द्वितीय वर्ष



Happy Engineer's Day

September 15, 2021





Wireless Charger



Wireless charger is an electrical device which is used to charge our smartphone without using any cable. It is a device that can transfer from a power outlet device to our electrical device.

Most phones and charger heat up slightly on the back where wired charging take place. We do not need to fiddle with cables in wireless charging.

Heat up problem can also be resolved by Wireless charger. It provides a safer way to transfer power to our smartphones and also can reduces the wear and tear on our device.

We can make a simple wireless charger by following some simple steps. Wireless charging works on the principle of electromagnetic induction. The charger uses an induction coil to create an alternating electromagnetic field which the receiver coil in phone converts back into electricity to be fed into the battery.



It is available in market today. Some of its application using smartphones are-SAMSUNG GALAXY S9, S10, S20, NOTE 9, NOTE 10 SERIES, GOOGLE PIXLE3/3XL, GOOGLE PIXLE 4/4XL, etc.

By:

Aditi Jain (Second Year)

Saurabh Verma (Second Year)



Software Development Club

Proposed by:

1. NOOR MOHAMMAD (Third Year)
2. AMIT Kumar (Third Year)

Approval:

Pleased to announce that the proposal sent to establish a club named “Software Development Club” has been approved by our respected Director Sir forwarded by Dean-R&D Sir dated 10-09-2021.

Motto:

Learn-Implement-Develop

Objective:

- *To provide a competitive coding platform.*
- *To enhance coding literacy among coders.*
- *To develop employable skills among engineering students.*
- *To create incubation environment for skilled developer.*
- *To develop apps, websites and technology.*
- *To increase confidence and remove code-phobia.*
- *To establish coding culture in college.*

Highlights of SDC



CODECHEF KEC Chapter in collaboration with SOFTWARE DEVELOPMENT CLUB –REC AMBEDKAR NAGAR organized 'Perfect Coder-Coding Contest' on September 18, 2021.



RANK 3
ABHISHEK SINGH
IT THIRD YEAR

Software Development Club

Rajkiya Engineering College
Ambedkar Nagar, U.P.

Ref. No.: RECABN/SDC/2021/02

CodeChef KEC Chapter in association with SDC- Rajkiya Engineering College, Ambedkar Nagar organized 'Perfect Coder- Coding Contest' on September 18, 2021.

Contest duration: 2 hours (5:00 pm-7:00 pm).

The rank list for this contest is displayed below.

Result: PRCD2021

Rank	Name of Student	CodeChef User ID	College	Score (500)
1	Dhruv Sharma	m1ch10	Krishna Engineering College Ghaziabad	500
2	Dev chauhan	dev_9354	Krishna Engineering College Ghaziabad	300
3	Abhishek Singh	dflabs_83	Rajkiya Engineering College, Ambedkar Nagar	200
4	Amit Kumar	jais_amit	Rajkiya Engineering College, Ambedkar Nagar	200
5	Ajay Kushwaha	ajayk_00	Rajkiya Engineering College, Ambedkar Nagar	200
6	Mohd Shadab	shaad82663	Rajkiya Engineering College, Ambedkar Nagar	200
7	Aman Chhabra	amchh_4621	Rajkiya Engineering College, Ambedkar Nagar	200
8	PRAGYA SINGH	pragpl	Rajkiya Engineering College, Ambedkar Nagar	200
9	NOOR MOHAMMAD	dnd_indolent_m	Rajkiya Engineering College, Ambedkar Nagar	200
10	Prashant Singh	prashantsin_22	Rajkiya Engineering College, Ambedkar Nagar	200
11	Prashant Singh	codemaster3323	Krishna Engineering College Ghaziabad	100
12	Sujal Sharma	sujal_sharma	Krishna Engineering College Ghaziabad	100
13	binary_beast_01	nerd_69	Krishna Engineering College Ghaziabad	100
14	Hrithik	hrithik_882	Krishna Engineering College Ghaziabad	100
15	Bhavya	bhavya_agg	Krishna Engineering College Ghaziabad	100
16	Utkarsh Tiwari	utkrash_7174	Rajkiya Engineering College, Ambedkar Nagar	100



Topic wise contest every week!

Improve your DSA concepts!

Conducted by
RECABN SOC

Starting from October 11, 2021



Starting a Codechef in REC will:

- Bring a competitive programming culture on the campus under the mentorship of Codechef.
- Enable students to learn together with other College Chapters in CodeChef community.
- Provides opportunities and exposure to students on the campus.

SDC has applied for CodeChef REC Chapter. Soon it will be in our college. Let's hope for best!!

SOFT COMPUTING

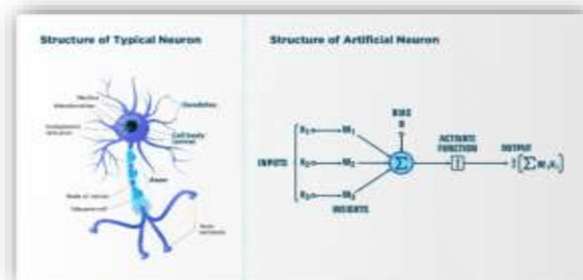
AMIT KUMAR
IT 3rd Year

Soft computing, unlike traditional computing, deals with approximate models and provides solutions to real-life complex problems. As opposed to hard computing, soft computing is endurable of imprecision, partial truth, and approximations. The model of human brain is the role model for soft computing. Soft computing is fusion of techniques like fuzzy logic, genetic algorithms, artificial neural networks, machine learning, and expert systems. In 1980s soft computing theory and techniques were first introduced to world. Soft computing has now become a major study and research area in automatic control technology. In present time the techniques of soft computing are getting used successfully in many domestic, commercial, industrial and medical applications. With the arrival of the low-cost and really high performance digital processors and with the reduction of the value of memory chips it's clear that the techniques and application areas of soft computing will still expand.

This article will give brief overview of soft computing techniques like Artificial Neural Networks (ANN), Fuzzy Logic Systems (FLS), and Genetic Algorithm.



Artificial Neural Network (ANN) defined as an information science model that's inspired by the

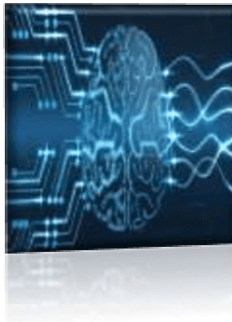


biological nervous systems, like information processing by brain. This model tries to duplicate only the foremost basic functions of the brain. An Artificial neural network consists of an outsized number of highly interconnected processing elements called neurons which works together (in union) to find solutions of specific problems.

“All you need is lots and lots of data and lots of information about what the right answer is, and you'll be able to train a big neural net to do what you want.”

–Geoffrey Hinton

Fuzzy Logic is a system methodology for problem-solving control that lends itself to implementation in systems ranging from simple, small, embedded microcontrollers to large, networked, multichannel PC or workstation based data acquisition and control systems which can be implemented in hardware, software or a combination of both. Fuzzy logic provides an easier way to arrive at a definite



conclusion based upon unclear, ambiguous, imprecise, vague, or missing input data or information. Fuzzy logics approach to control problems mimics how a person would make decisions much faster.

Genetic Algorithms are adaptive computational procedures model on the mechanics of natural generic systems. GAs are executed iteratively on a group of coded solutions, called population, with three basic operators: selection/reproduction, crossover and mutation. They use only the payoff (objective function) information and probabilistic transition rules for moving to subsequent iteration.

“As complexity rises, precise statements lose meaning and meaningful statements lose precision”

– Lotfi A. Zadeh

They are different from most of the traditional optimization and search procedures within the following four ways:

1. Genetic algorithms work with the coding of the parameter set, not with the parameter themselves;
2. Genetic algorithms work simultaneously with multiple points, not one point;
3. Genetic algorithms search via sampling (blind search) using only the payoff information;
4. Genetic algorithms search using stochastic operators, not deterministic rules.

Upcoming Changes in the Upcoming Years

We all are aware of the fact that technology is getting increased day by day by leaps and bounds. Technology has brought enormous changes to our lifestyle and has surrounded us with lot of comforts. The world in the Upcoming years will probably be bit similar like today, but smarter and more automatic. The internet has brought huge changes the way people meet and think about each other. Many Social Media services such as **vine**, **snapchat**, **Instagram** have opened up possibilities that allow people to look beyond their immediate friends.

According to the Futurist “Graeme Codrington” there is a list of predictions which he has made and are probably getting into reality in the future:

- We could start seeing **delivery drones** finally start making deliveries in the next two years.



- **Machines** could start thinking like **humans** as early as 2025.
- **Space trips** designed to send people to Mars could start taking place in 2030.
- Prosthetics could get so advanced in the next 10 years they could give people new skills.
- Clothing could give people superhuman skills in the next 10 years.



- **Virtual reality could replace textbooks** during the next decade.
- The **smartphone** will become obsolete by 2025.
- **Self-driving vehicles** could be ubiquitous in the next 10 years.

The Above given list only make us feel full of excitement that we'll be using them in the future but, like the two sides of a coin there are going to be some serious impacts on our life in the future and some of them are mentioned below:

According to Case Study “Future of the Internet Studies lead by Pew and Elon University's Imagining the Internet Center” a lot of bad effects will be seen in the cognitive skills of the people making them deficit in the ability to learn, focus and remember things.

Experts also are concerned about the impact digital life will have on mental health. They are concerned that we will see increases in stress, anxiety, and depression as digital lives expand.

Meanwhile, there will be less face-to-face interaction, increased inactivity, poor in-person communication skills, and an overall distrust among people.

On a larger scale, they worry that there will be increased threats to democracy, national security, and even jobs. *For instance, as artificial intelligence and machine*



learning grows, this may have a negative impact on the

availability for jobs, causing a rise in unemployment. For teens entering the job market in the next decade, this may mean that it is harder to find jobs.

All of the upcoming changes in technologies will put effects on our wellbeing. The type of effect will depend upon our requirement and usage but surely we'll be seeing much advancements and developments in the IT industry which will form the core and foremost part of the economic value of our country.

Be Yourself!

Does it happen to you that right before you decide to sleep and that moment where you want to sleep, mind is just filled with so many thoughts suddenly. That happens to me a lot, so I thought why not share some and see that may be if you could relate it as well.

Am I the only one who feels lonely lot and more often than not, finds himself like craving worms? Am I the only one who feels stifled a lot and feels that I just can't do? Be myself when there are people first and forth. Where do I even go, attempting to find this balance between solitude and company, between being alone versus people a company, between sitting with your own thoughts or boring some from others, between being in my room versus go out, a little more advice from my mother. What is the correct way of being? There is no correct way. The right way of being is just being some times. One wants to just be understood, be seeing by their ourselves, or by the people that they call their own, because if that is done nicely, you will never feel alone, not when you are around people, not even you are by yourself because those people will be the right people for you.

People who are healthy for your sole, their presence will feel warm and so whole because you will be the whole and even you are alone, your acceptance of who you truly are, will make you feel not lonely, no. It will make you feel at bar, with being around all your loves together because now you will also love you and may be that's the answer and not if you are introvert or extrovert if you feel fulfilled around people then keep those people in your life but start with feeling fulfilled around your yourself because here you can't choose, you got to live with yourself, let's make it a loving journey of nurturing and healing of being and feeling every damn experience, every single event with people or not, even alone so what, stop the stress, stop the guilt, cut yourself some slack because when you are truly ready you will find you pack and everyday your pack will stay effortlessly with you. Hence stay with yourself. Give yourself a big hug and love yourself.

“Be yourself, better yourself, be happy and fulfilled.”

Prashant Singh
IT Third Year

लड़कियाँ

कहते तो है सभी आजाद है लड़कियां
मगर घर में आया तो पाया की कैद है लड़कियां
हम उम्र में हर किसी की भाती है लड़कियां
ना जाने क्यों उन से ठुकराई जाती हैं लड़कियां ।।

महफिल बाजार घर को सजाती है लड़कियां
फिर भी खुद को बेबस पाती है लड़कियां
सब कुछ खो कर जन्नत की सैर करती है लड़कियां
फिर भी देखो कितनी बरदाश्त हैं लड़कियां ।।

फिर क्यों पैदा होने से पहले मार दी जाती हैं लड़कियां
हर किसी के जुल्म बरदाश्त कर जाती हैं लड़कियां
फिर भी उसी के द्वारा ठुकराई जाती है लड़कियां ।।

सब कुछ देख कर अनोखा करती हैं लड़कियां
कुर्बान होकर सब कुछ भूल जाती हैं लड़कियां
फिर भी समय आने पर दुर्गा बनती है लड़कियां
अब कांधे से कांधा मिलाकर चलती है लड़कियां ।।

- नेहा मौर्य (तृतीय वर्ष, IT)



मां का अस्तित्व

कब्र के आगोश मैं जब थक के सो जाती है मां,
तब कहीं जाकार थोड़ा चैन पाती है माँ।

खून के रिश्तों की ये गहराईयां तो देखिये
चोट लगती है हमें चिल्लाती है मां॥

जब परशानी से घिर जाते हैं परदेस में,
आंसुओं को पोछने ख्वाबों में आ जाती है मां॥

चाहे खुशियों में हम मां को भूल जाएं
जब मुसिबत सिर पर आती है तो याद आती है मां॥

शुक्रिया से नहीं हो सकता उसका कर्ज अदा
मरते- मरते भी दुआ जीने की दे जाती है मां

प्यार कहते हैं किसे, ममता क्या चीज है
ये तो उनसे पूछना जिनके पास नहीं है मां,

ऊपर जिसका अंत नहीं, उसे आसमां कहते हैं
जिसके प्यार का अंत नहीं उसे मां कहते हैं॥

--प्रिया सिंह (I.T)

तृतीय वर्ष



ODE TO PERSEVERANCE

Fight hurdles with copious potential
Learn lessons from misconceptions.
Uphold confidence by solid practice
Get energies from motive lectures. ||1

Many a little makes a mickle
A student with fixed ambition
Hard nut to crack
Till reach opted destination. ||2

Quite tough to keep equilibrium
Variation ever come
Name-fame-self-respect-status
Often matters a diligent one
When his ability goes sterile
And dullness becomes his outcome. ||3

A shrill mind, when turns dark
Feels indolent while alone
Needs courage in lieu of blaspheme
Immersed in fatal thoughts, keep quiet
Being nervous and stressed
Sometimes leaves painful life. ||4

Situation varies time-to-time
Sometimes sorrow, sometimes pleasure
Even sometimes other parameters
Don't give up hope, be positive
Follow morals throughout the life. ||5

God gives many lives in a life
But, body with soul only one time
Being a human, our foremost duty
To keep ourselves, awake and alive
Whether it is raining or drought time
Till we clear all phases of life. ||6

**NOOR MOHAMMAD
IT THIRD YEAR**

PRAGYA SINGH
IT THIRD YEAR

ARTIFICIAL INTELLIGENCE

Amount of data that gets generated on a daily basis is too much to get absorbed or processed by the human mind or by less complex computer design. In order to store and utilize that data we need more complex design, there arise the concept of AI.

Sometimes called machine Intelligence, AI is Intelligence demonstrated by machines and is rapidly transforming our world. It is the ability of machine to think and learn without any explicit programming and to perform tasks associated with human beings, by making use of concepts like machine learning, deep learning, neural networks, visual recognition etc. AI mimics human intelligence processes through the creation and application of algorithms built into a dynamic computing environment.

It forms the basis for all computer learning and is the future of all complex decision making. Reducing human error, making complex tasks look easier are some of the several advantages of using AI. The way they work proves their reliability and efficiency.

It's trying to make computers think and act like humans.

AI is not only the future; it is also the present.

Combined with the increased availability of robust simulation, testing, and field data sets, advancements in the fields of artificial intelligence (AI) and machine learning (ML), has made engineering data science a key component of the modern product development lifecycle.

Applications in diverse sector:



1. National security: AI has the potential to support a number of national and international security initiatives, from cybersecurity to logistics and counter-terrorism. AI applications in defense rely on training data from a variety of inputs, it may include technical cybersecurity feeds, aerial photography, or data from physical sensors in the field.

2. Health care: AI tools are helping designers improve computational sophistication in health care. Medical artificial intelligence uses computer techniques to perform clinical diagnoses and suggest treatments. Having the capability of detecting meaningful relationships in a dataset, AI has been widely used in many clinical situations to diagnose, treat, and predict the results. Companies like Merantix, applies deep learning to medical issues.

3. Criminal justice: Nowadays, AI is getting deployed in the criminal justice area along with other major sectors. Introduction of such a powerful system helps to reduce human bias in law enforcement and leads to a fairer sentencing system.

4. Transportation: Transportation is one of the major fields where AI and machine learning are producing major innovations. Artificial intelligence is changing the transport sector, from helping cars, trains, ships and aero planes to function autonomously, to make traffic flows smoother, it is already applied in numerous transport fields.

“AI is transforming every walk of life. It is a wide-ranging tool that enables people to rethink how we integrate information, analyze data, and use the resulting insights to improve decision making.”

Current Affairs

Sri Lanka declares Food Emergency

Sri Lanka is suffering from a hard-hitting economic crisis. Following the crisis, President Gotabaya Rajapaksa ordered emergency regulations to counter the hoarding of sugar, rice and other such essential foods. President also named a top army officer as “Commissioner General of Essential Services to coordinate the supply of paddy, rice, sugar and other consumer goods”

8th Meeting of Agricultural Experts of BIMSTEC Countries held

8th Meeting of Agricultural Experts of BIMSTEC (Bay of Bengal Initiative for Multi-Sectoral Technical and Economic Cooperation) Countries was hosted by India on August 31, 2021.

Meeting was attended by Agricultural Ministries from Bangladesh, Bhutan, Nepal, Sri Lanka, India, Myanmar and Thailand. During this meet, Chairman highlighted the UN Food System Summit 2021 and transformational aspects that are happening across agriculture and food systems globally. He asked to enhance engagement and deepen cooperation amongst BIMSTEC Member States in the field of agriculture and allied sectors by encouraging exchange of students, experts, knowledge and germplasm.

World's highest motorable road inaugurated in Ladakh

A road connecting Leh to the Pangong Lake was inaugurated on August 31, 2021 by Ladakh MP Jamyang Tsering Namgyal. Highlights The stretch passing through the Kela Pass at 18,600 feet is the world's highest motorable way. The road was constructed by 58 Engineer Regiment of the Indian Army.

World's first 'Plant based' Smart Air-Purifier “Ubreathe Life”

World's first Plant-based smart air-purifiers called “Ubreathe Life” by the scientists of Indian Institutes of Technology, Ropar & Kanpur, and Faculty of Management Studies of Delhi University. Highlights Ubreathe Life amplifies the air purification process in indoor spaces like schools, hospitals, offices, and homes. This product is being developed by Urban Air Laboratory.

WHO monitoring new COVID variant ‘Mu’

Mu variant is scientifically known as B.1.621 and has been classified as a “variant of interest”. According to WHO, variant has constellation of mutations indicating a risk of resistance to vaccines. Mu has been reported in other South American countries and in Europe, besides Columbia. As per WHO, global prevalence of the Mu Variant has declined to 0.1 percent.

BRICS Bank admits UAE, Bangladesh, Uruguay as new members

New Development Bank (NDB) by BRICS group of nations has added United Arab Emirates, Uruguay and Bangladesh as the new members on September 2, 2021.

Avani Lekhara: 1st Indian woman to win 2 Paralympic medals

Avani Lekhara won a bronze medal in women's 50m Rifle 3 Positions (SH1) event. She made history with a third-place finish. She had become the first Indian woman to win gold in women's 10m Air Rifle Standing (SH1) event at the ongoing Paralympics.

Suhas Yathiraj: 1st IAS officer to win Paralympics medal

He ended his campaign with the winning of historic silver. He lost gold to top seed Lucas Mazur of France in the men's singles SL4 class final at the Tokyo Paralympics on September 5. Mazur has also won three gold medals in European Championships, in the qualifying group A match. But India made a tremendous effort in the final to challenge him.

India Rankings 2021 of National Institutional Ranking Framework

- IIT Madras has topped the list in the Engineering Category, for the sixth consecutive year.
- IIT Madras also topped the list in overall category.
- IIM Ahmedabad also maintained its top rank in Management category, for the second year.
- In University category, Indian Institute of Science (IISc) Bangalore was at top position.
- Miranda House, Delhi topped the list in college category.
- Jamia Hamdard, New Delhi was ranked at first position in Pharmacy category.
- In Medical Category, All India Institute of Medical Sciences (AIIMS) Delhi was ranked at first position.

India's 1st Emergency Landing Facility on National Highway in Rajasthan

This emergency landing facility has been constructed on the Satta-Gandhav stretch of National Highway (NH) 925A in Barmer, Rajasthan. On the occasion, C-130J Super Hercules transport aircraft of Indian Air Force (IAF) landed at the emergency field landing at the National Highway in Jalore, Rajasthan. This is the first time; a National Highway will be used for emergency landing of IAF aircraft.

ISRO to develop reusable GSLV Mk-III launch vehicle

This new technology will help ISRO to land its GSLV Mk-III launch vehicles vertically. It will be similar to what Elon Musk's SpaceX is doing. With this technology, ISRO also seeks to recover the first and second stages of the launch vehicle. Development of reusable GSLV Mk-III launch vehicle will help ISRO is saving money as well.

India-Singapore announces to link UPI and PayNow

India and Singapore have announced the linking of the Unified Payments Interface (UPI) and PayNow, in order to enable users to make instant, low-cost fund transfers. The project to link the fast payment systems of both the countries was announced by Reserve Bank of India (RBI) and Monetary Authority of Singapore (MAS). This linked payment interface is expected to be operationalised by July 2022. Linked interface will help in making instant, low-cost fund transfers on a reciprocal basis without onboarding onto the other payment system.

First software Technology park in Nagaland

Nagaland's first and India's 61st Software Technology Park of India (STPI) centre was inaugurated at Kohima. The inauguration of the STPI centre in Kohima is a fulfilment of Prime Minister Narendra Modi's vision of growing a technology ecosystem in the northeast to create possibilities for future generations in the region. The MoS urged the want to create actual trade in the science ecosystem. To create job opportunities, he said, the national government ought to work towards developing an interconnection of establishments to create consciousness about more than a few possibilities available for the youth.

World's highest EV charging station inaugurated in Himachal Pradesh

The world's highest EV charging station was opened at Kaza town, in Lahaul and Spiti district of Himachal Pradesh. The EV charging station was opened on 23 September 2021 to promote a sustainable environment. It is the world's highest electric vehicle charging station, located at 500 ft. A couple of women drove electric vehicles from Manali to Kaza to promote a clean and green environment along with the EV charging station. All the products, including chargers of this station, are made in India.

Launch of Amazon Future Engineer

E-commerce giant, Amazon India, announced the launch of "Amazon Future Engineer" on September 27, 2021 in India. Amazon Future is its world computer science schooling program. As per company, Amazon future program will enable access to pleasant computer science education as well as career possibilities for students from underrepresented and underserved communities. During the first year of its launch, Amazon pursues to enable and deliver mastering opportunities to about 1 lakh college students from 900 authorities and aided schools in seven states of India.

Chandrabhusan Yadav

Manas Singhal

IT Third Year

Just For Fun!



Me going to attend online class.

Step 1:



Step 2:



Step 3:

Attendance on google classroom.

Your answer

No due date

☒ Present Sir

Hand in

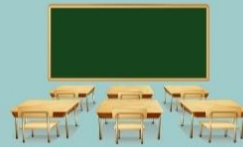
Attended whole class.
But forgot to give my attendance 😞.

*Me to Teacher:-

Sir 🧑🏫 ..., roll no. 45 laga dijiye please.

*Teacher to me :-

Better luck next time 👍.



@prashant_singh(I.T. 3rd year)





GATE 2021 TOPPER



TUSHAR TOMAR
GATE SCORE: 919

Testimonial

“Being a part of Rajkiya Engineering College, Ambedkar Nagar was a huge stroke of luck for me. The entire faculty and department work tirelessly to mould one’s destiny. My four year at Rajkiya Engineering College, Ambedkar Nagar were a superb learning experience with a lot of outside exposure. Huge admiration, affection and loyalty for the entire faculty and department. It is because of their efforts that I consider myself a better professional.

-TusharTomar



VISHAL JAISWAL
GATE SCORE: 558



AAKASH SINGH
GATE SCORE: 561



RAVI PRATAP Y.
GATE SCORE: 558



PALAK JAIN
GATE SCORE: 459
(1873713030)

BEST PLACEMENT 2020



ANKUSH PANDEY

(1673713011)

Name of Company: **BYJUS'S**

ACADEMIC TOPPERS 2021

FINAL YEAR



83.61%

TUSHAR TOMAR
(1773713057)



82.76%

NIKKU VERMA
(1773713034)



82.03%

NAUREEN RAIS
(1773713032)

THIRD YEAR



84.37%

PRANJAL PANDEY
(1873713032)



83.13%

NANCY SALONIA
(1873713028)



82.37%

PALAK JAIN
(1873713030)

SECOND YEAR



AMAN CHHABRA
(1907370130013)

82.21%



**ADITI
CHAUDHARY**
(1907370130007)

81.83%



**PRAPHUL KR.
MAURYA**
(1907370130013)

80.10%

FIRST YEAR (SEMESTER-1)



AVINASH MAURYA
(2007370130024)

80.22%



PIYUSH SINGH
(2007370130043)

80.00%



**AMAN
SANKHWAR**
(2007370130024)

78.66%

NPTEL COURSEWISE TOPPERS 2020



**ADITI CHAUDHARY
(IT THIRD YEAR)**

**ENHANCING SOFT
SKILLS AND
PERSONALITY**



**PRAPHUL KR.
MAURYA
(IT THIRD YEAR)**

**AN INTRODUCTION TO
PROGRAMMING
THROUGH C++**



**ADITI CHAUDHARY
(IT THIRD YEAR)**

**DEVELOPING SOFT
SKILLS AND
PERSONALITY**





- Research paper of Dr. Sudhakar Tripathi titled "A hybrid convolutional neural network for sarcasm detection from multilingual social media posts" accepted for publication in the SCI(E) Journal Multimedia Tools and Applications. Springer [IF 2.757].

- Shri Shivendu Mishra was featured in the NPTEL DISCIPLINE STARS categories of Learners.
- Shri Shivendu Mishra is part of ICFCCT 2021 Conference as a "Scientific Committee Member" to be held on 27th -28th October 2021, Mumbai.



- Dr. Ramesh Chand Pandey successfully completed the NPTEL-AICTE FDP course on 'Cryptography and Network Security' (Elite+ Silver).
- Dr. Ramesh Chand Pandey successfully completed the NPTEL-AICTE FDP course on 'Introduction to Machine Learning' (Elite)

- Shri Sharad Verma attended FDP on the topic: "Leadership: An Essential Employability Skill for the 21st Century" from Sep 6, 2021 to Sep 10, 2021.





- Dr. Ashish Kumar Mishra successfully completed the NPTEL-AICTE FDP course on 'Cryptography and Network Security' (Elite+Silver).
- Dr. Ashish Kumar Mishra successfully completed the NPTEL-AICTE FDP course on Introduction to Machine Learning' (Elite).

- Shri Shivendra Kumar Pandey attended FDP on the topic: "Leadership: An Essential Employability Skill for the 21st Century" from Sep 6, 2021 to Sep 10, 2021.
- Shri Shivendra Kumar Pandey attended FDP on the topic: "Machine Learning and Its Applications in IoT, Computer Vision and Cloud Computing (MICC-2021) from Sep 20, 2021 to Sep 24, 2021.



- Shri Prince Rajpoot participated in the 5-day online Faculty Development Programme on "Leadership: An Essential Employability Skill for the 21st Century" organized by Department of Applied Sciences and Humanities, Rajkiya Engineering College, Mainpuri, India, from Sep 6-10, 2021.
- Shri Prince Rajpoot successfully delivered the Open Seminar required for submission of the Thesis at MNNIT Allahabad.

- Shri Amit Kumar was included in the Technical Program Committee of 3rd International Conference on Machine Intelligence and Signal Processing (MISP-2021) from 23rd -25th September 2021 at NIT Arunachal Pradesh.
- Shri Amit Kumar submitted his PhD thesis at JNU New Delhi.





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THE QUBIT TEAM



FACULTY ADVISOR
Mr. AMIT KUMAR



CHIEF EDITOR
NOOR MOHAMMAD
IT THIRD YEAR



EDITOR
AMIT KUMAR
IT THIRD YEAR



EDITOR
CHANDRA BHUSHAN YADAV
IT THIRD YEAR



COORDINATOR
SAURABH VERMA
IT SECOND YEAR



COORDINATOR
KRISHNA YADAV
IT SECOND YEAR



COORDINATOR
ADITI JAIN
IT SECOND YEAR

Inspirational Movie Quotes

Dear Students

I am putting together some of my favorite lines from movies to help you stay positive and motivated.

- “There should be no boundaries to human endeavour. We are all different. However bad life may seem, there is always something you can do, and succeed at. While there's life, there is hope.”
- 'The theory of everything'
- “Don't ever let someone tell you that you can't do something. Not even me. You got a dream, you gotta protect it. When people can't do something themselves, they're gonna tell you that you can't do it. You want something, go get it.”
- 'The Pursuit of Happiness'
- “Hope is a good thing, maybe the best of things, and no good thing ever dies.”
- ‘The Shawshank Redemption’
- “You're serving. You're not a servant. Serving is a supreme art. God is the first servant. God serves men but he's not a servant to men.”
- ‘Life is Beautiful’
- “It's only in the mysterious equation of love that any logical reasons can be found.”
- ‘A Beautiful Mind’
- "Sometimes the best way to deliver a punch is to step back... But step back too far and you ain't fighting at all."
- ‘Million Dollar Baby’
- “Life is like a box of chocolate. You never know what you're gonna get.”
- ‘Forest Gump’
- “I have to believe that when things are bad I can change them.”
- ‘Cinderella Man’
- “You can be as mad as a mad dog at the way things went. You could swear, curse the fates, but when it comes to the end, you have to let go.”
- ‘The Curious Case of Benjamin Button’
- “It would be easy to become a victim of our circumstances and continue feeling sad, scared or angry; or instead, we could choose to deal with injustice humanely and break the chains of negative thoughts and energies, and not let ourselves sink into it.”
- ‘The Freedom Writer’

Mr. AMIT KUMAR
Assistant Professor

An ornate, symmetrical gold frame with intricate scrollwork and floral patterns. The frame is centered on a white background. Inside the frame is a solid purple rectangular area. The text "SEE YOU SOON!" is written in white, bold, serif capital letters, centered within the purple area.

**SEE YOU
SOON!**