



INDIAN INSTITUTE OF INFORMATION TECHNOLOGY  
TIRUCHIRAPPALLI

# AIKYAM

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*The New Year edition*



Brought to you by EBSB and  
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# Director's Note

My Dear Students,

First of all, I extend my earnest wishes for a very healthy, safe and prosperous New Year to each and every member of IIIT Tiruchirappalli fraternity. With the advent of the New Year, let us together begin the journey with new hopes, aspirations and efforts towards creating a better tomorrow. I hope you are investing your time wisely to pursue your passion and towards achieving academic excellence in spite of various odds due to the ongoing Covid-19 situations. None of us would have ever imagined that the humanity is going to face such an unprecedented challenge in term of the pandemic. These challenges have prepared us to learn the life in new ways and taught the world many evolving technologies in these two years. No doubt the tough times always leave traces on the existence of mankind, but they also pave the way to understand and address various existing gaps and challenges in our system.

I quote here Warren Buffett who said that "The most important investment you can make is in yourself". As budding engineers and technocrats, try to be more inquisitive and develop the socially constructive thinking by using the available time with you. You all should make endeavours in the direction of exploring these unaddressed gaps and make efforts to provide the desirable solutions for them. I advise you all to work in the direction of social justice and empowerment of overall mankind in such a way that your prescribed solutions should be able to provide due support to the decision makers and policy formulation about the interventions to be made.

Strengthen your efforts by minimizing the fault-lines wherever you notice them. Work for the improved designs and cutting edge manufacturing technology which have useful industrial applications and societal benefits. As per my own experiences, I would like to suggest that human existence can be proven to be useful by emphasising on the service-oriented motive for life. The country is still facing various challenges in terms of accessibility and affordability of healthcare services, nutrition related challenges, appalling poverty and issues associated with the employability.

As IITian I believe that even a simple innovation can be crucial to address these challenges in a time bound manner. Work with the full spirit and momentum for the creation of self-reliant new India. These innovations will promote the entrepreneurial capabilities and will change the traditional outlook towards the future career options. Opportunities and challenges needs to be balanced harmoniously to realise the sense of one nation oriented towards achieving inclusive social development. Explore the unexplored avenues of opportunities which will be gradually changing the overall face of the humanity and human existence in diligent manner.

I would like to conclude here with the quote by father of Nation Mahatma Gandhi: "Be the change that you wish to see in the world." We at IITI are always committed towards offering holistic education by emphasising the spread of the culture of innovation and create outstanding personalities and new knowledge. I am sure, you all will make wise utilization of the time and skills by converting them into the grand opportunities which will surely strengthen and beautify the structure of the society and the nation.

Let us hope that 2022 would be more lively, safe, progressive and prosperous for all of us. I once again extend my warm greetings to all of you for the New Year 2022.

With Best Wishes,

Prof. N.V.S.N. Sarma  
Director, IITI Tiruchirappalli...



# From the Desk

On behalf of 'Aikyam', the student Editors, and the Editorial Team of our magazine, we would like to wish all the members of the IIIT Tiruchirappalli community and stakeholders a wonderful and prosperous year ahead.

2021 was a great year for all of us with the challenges we tackled and the privileges we enjoyed. In the year that has gone by, our team worked effectively and attracted a good number of creative contributions from student authors and artists. We would like to congratulate the untiring efforts of every member of our team with determination in designing and creating our Institute's multilingual e-magazine. At the same time, we would like to express our gratitude to the Director for his support and guidance and to our colleagues for their encouragement.

We wish that the persistent efforts of team 'Aikyam' would increase the quality and standard of the magazine. We very much look forward to the enthusiastic creative submissions from the students of our Institute. We also look forward to a productive, challenging and successful 2022 ahead.



Dr. Rinshu Dwivedi



Dr. Sindhu Vasu

Assistant Professors  
Department of Science & Humanities

# Student Editors' note

Firstly, Aikyam Production Team wishes the readers and their families a very happy and prosperous new year. Last month we got our new batch of juniors, with this new year we wish them good luck for their college life. As you would already know that the institute is working in online mode, introducing the juniors to the clubs and their functioning is still a challenge faced by most of the club coordinators. We face this challenge too and are working on the inductions of juniors into the team.

This edition is special because it's made keeping in mind the expectations of juniors and making them accustomed to the platform. With freshers inducted into the different clubs, we hope for a new perspective and fresh energy.

We would also like to inform our readers that the Aikyam Production Team has made the calendar for the year 2022. We will be eagerly waiting to notify you once that is published (or you would have already been notified by the time you are reading this).

Aikyam Production Team would be regularly issuing new editions. Together, let's keep Sandwich flying! We would be excited to introduce the institute to the latest pool of talent among the freshers.

We hope you find the eighth edition of Aikyam knowledgeable, exciting and enjoyable. If not, we are always open to your feedback, complaint, suggestion and appreciation. Happy Reading!!



Nishit Mangal



Nunna Lakshmi Saranya

# Poetry Section



# नई शुरुआत



बीते वर्ष, हम सबने बहुत पीड़ा उठाई है।  
किसी ने हिम्मत खोई, तो किसी ने हिम्मत बंधाई है॥  
मगर इस नववर्ष पर सब एकजुट होते हैं।  
आओ, एक नई शुरुआत करते हैं॥

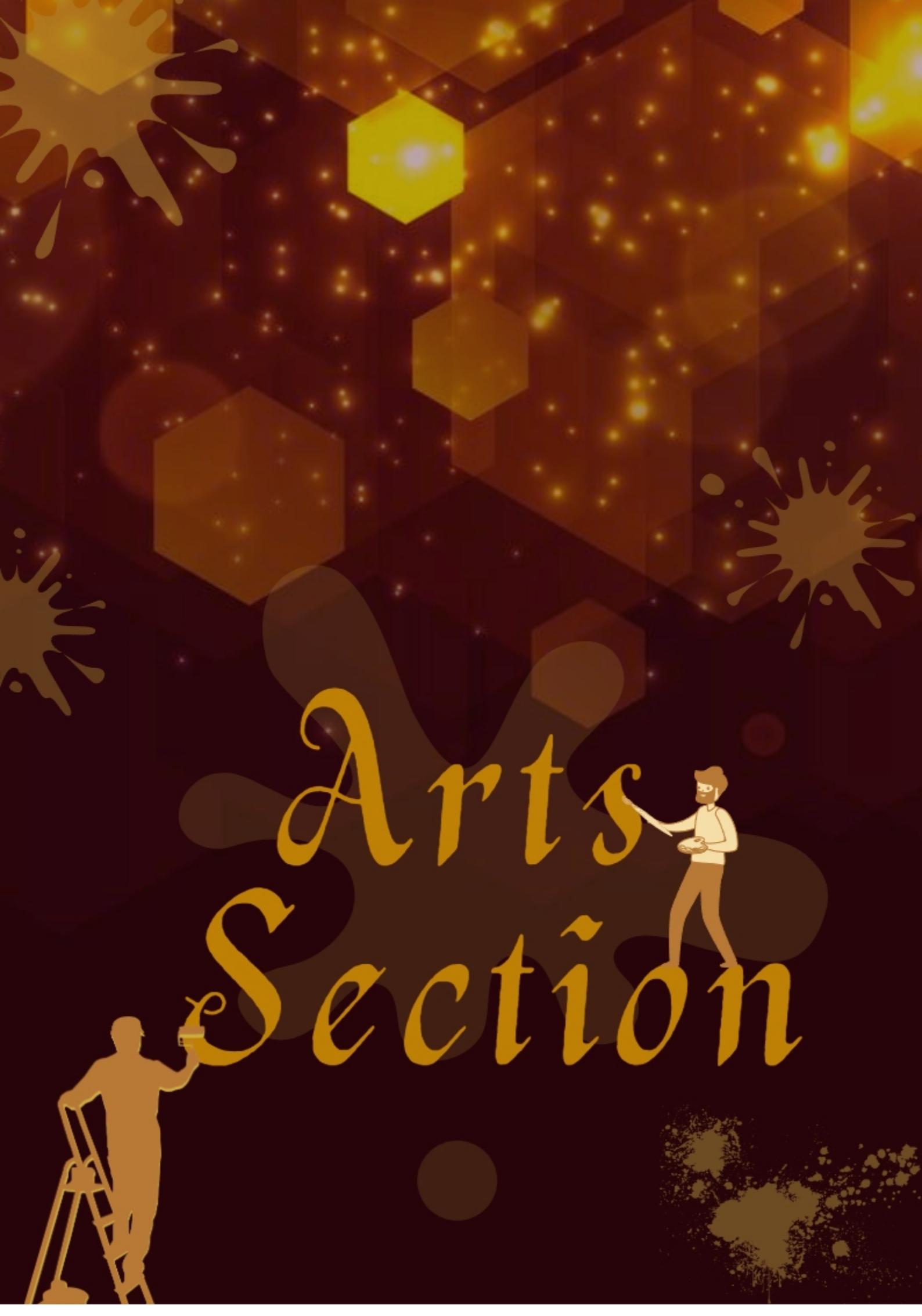
अपने जो रुठे हुए हैं, उन्हें मनाते हैं।  
जो टूटे हुए हैं, उनका हौसला बढ़ाते हैं॥  
चलो एक काम करते हैं।  
आओ, एक नई शुरुआत करते हैं॥

घना अंधेरा छट जाएगा।  
नया सवेरा उमंग लाएगा॥  
इस उमीद को ज़िंदा रखते हैं।  
आओ, एक नई शुरुआत करते हैं॥

पुराने सब दुख-दर्द भुलाकर।  
बाकी सब गिले-शिकवे मिटाकर॥  
दिलों को फिर से रोशन करते हैं।  
आओ, एक नई शुरुआत करते हैं॥

जो बीत गया, वो वापस ना आएगा।  
चलो, सब पुराना त्याग करते हैं॥  
आने वाले इस नए साल में।  
आओ, एक नई शुरुआत करते हैं॥  
नववर्ष की बधाईयां एवं शुभकामनाएं, सबका जीवन मंगलमय हो॥

- सिम्मी राज



# Arts Section





- Chintala Sravani

Merry Christmas

Hope the jingle bells rang at your door !!





- *Harsh Kumar*



- *Vemuri Bhavana*

# *Article Section*



# The New Year

New, as soon as we hear this word, the waves of dopamine start to shake in the ocean of our mind. Whether it's the new toys of childhood or a trip to some new place. New things have always attracted us. Yet, we don't know why this happens. Along with all these there is another new thing which excites us after a certain time interval, it's is the new year, it comes in front of us after exactly 12 months as a reason to make us happy. And as usual this year also, forgetting the sour and pungent memories of last year, we are waiting for the new year with a new enthusiasm. And why not to do it, we have done all the planning to rejuvenate ourselves, as if we will execute that plan in the new year. Following the tradition to start with New Year's resolution. So, the question is, will we be able to fulfil that dream for which we have been waiting so long? However, most people are unable to live up to their own expectations. This is not a new thing, we have been doing this for years. Maybe that is why we do not find it strange now.

On the first day of every year, we enter the new year with a new year resolution and despite all the efforts, we are unable to live to that resolution, lasting no longer than New Year's sweets. Here, I would like to congratulate them whoever fulfilled their resolution. Excitingly, I have some new plan explaining below.

We must understand that every moment is a new beginning and the real strength is always in the present moment. We do not know what will happen to us in the future, but we only know what is happening to us in the present and in fact this is the beginning of change. So why not we forget pre-planning type of things and start this new year with a new style, considering the present as your reality and start the year with the determination to behave accordingly and try to adopt this value throughout the year. Adopt new habits, habits that take us to our destination. Gandhiji said "*we are the embodiment of our thoughts.*" So, in order to change ourselves, we have to change our habits first.



You are thinking right that changing habits is not an easy task but they can be changed. It only demands consistent efforts. According to author Earl Nightingale "*Whatever we sow in our subconscious mind, it is nourished by our emotions over and over again, and one day it becomes reality.*" The dreams we see become reality as soon as we see them, after that the whole game is to get the key to that reality. We can get the key that leads to that dream world by making continuous efforts. For all this, we will need some time, which we all lack. We must have looked at that part of the school wall where "*The time is the most valuable commodity*" was written in bold letters.

But we have been ignoring it, only considering it as an object to behold, that's why today we are short of time even to do important things. When we do a time analysis of our life, it comes to know that we have got only a few hours in our life, but still we are not able to use it properly. Maybe, if it is with money or any other physical things, we would have been more aware and it shows our poor intellect.

Through this article, I am leaving in front of you some ways to make the new year dignified. In which steps should be taken considering the importance of thoughts, time and the present situations. Wishing a Great and joyful new year to one and all.

Thank You!!

- *Suman Raj*

Happy New Year!!



# Orientation 2021

*!! Welcome freshers !!*



Welcoming you all to this whole new world and our small family. A journey of life, full of new challenges, milestones and achievements. It's not just about education and training but also about building a personality, an attitude, a character and a versatile person. So, as we are a family now, we all will learn something new each day, making memories full of love and happiness, learning and success. I would just ask you all to be enthusiastic and participate in every event to come. Try to be extraordinary in every case to stand out and shine your way out. With efforts and consistency you can achieve anything you wish. At the end of this journey, you are going to have a treasure of memories and will definitely shine with flying colours. So, 3 days orientation program was held from 10 Dec to 12 Dec 2021 for the newly admitted batch of 2021-25.

On Day1, in forenoon session Dr. K Kamakshi, HOD S&H dept. presented opening remarks followed by the institute details presented by the hon. Director Prof. NVSN Sarma which included details about permanent campus, placements and a welcoming speech for freshers.

We had chief guest Resp. Prof. K Sankaranarayanasamy, Director NIT Puducherry amidst us who encouraged the students with his precious words. One of the most important things, which he advised to reach up to your desire is "get addicted to something good before you get addicted to something bad". Later on, Dr G Devasena, coordinator T&P cell, briefed about the placements, its procedure, the recruiters and the placement statistics.

In Day1, afternoon session students got an overview about the fee structure and the curriculum of ECE, CSE, S&H and Mechanical depts. respectively delivered by the respective HODs. Later, orientation of yoga club was held to let the students know the meaning of yoga, to make them aware about its importance and benefits in our daily lives.

Day 2, forenoon session started with a lecture by Dr Sindhu V, Asst Prof S&H dept. on online educational platforms which included their merits and demerits. It was a pleasure to have Dr Ravi Kumar P, Physical Director, NIT Warangal as the chief guest who educated everyone on 'Fitness'.

He touched upon the points on how to remain healthy and fit, about the dimensions of human being i.e. body, mind and soul, about how the posture should be, causes of deformities, hurdles for mental peace etc. “*Only when the people are fit then only fit nation can be build*”.

In Day 2, afternoon session students got an insight of our cultural, technical and sports clubs. About the extra-curricular and co-curricular activities, the events held by various clubs of our institute and to keep themselves engaging and active by taking part in events/activities held. Later, Dr Jagadeeshwar P, Asst Prof S&H dept. discussed regarding the mathematics curriculum and also took math test for checking students' basic knowledge and understanding about the subject.

In Day 3, forenoon session we had Prof Sai Kumar M L , Former Prof, IPE, Hyderabad as chief guest who talked on ‘time management’ which is the most important topic of today’s life which most of us specially we youths doesn’t value. One thing which he mentioned in his talk was that “*never think about past as it brings tears, never think about future as it brings fears*”.

Just think and focus on the present. Give it your all and enjoy the present thing which is going on. He also discussed about urgent, non-urgent, important and non-important things, on which things to focus and which things to leave that won’t affect anything, many real-life examples to address the young minds to let them know the value of time and focus on time management which will definitely help reaching greater heights. Then, Dr Rinshu Dwivedi, Asst Prof S&H dept. gave an insight of entrepreneurship through the lens of engineering which included characteristics of entrepreneurship, entrepreneurs and intrapreneurs, planning, how the business is evolving over years, future business ideas etc.

Day 3, afternoon session included information regarding exam pattern, instructions, hostels and interaction with the student council members. With this, 3 days orientation program was concluded.

Congratulations and wishing the best to all the young minds for embarking this new journey and many more to come ahead.

All The Best !!

- Simmi Raj

# *Farmer*

“*The most praised, yet the most unsung hero*”

What?? The most praised and the Unsung hero? Yes, you read it correctly. You will get to know once you reach the last line of this writing.

“*Farmer*” is the one who feeds a small family on one hand and the whole world on other hand. He is the one who feeds everyone on the earth, whether he is a doctor, lawyer, engineer, etc.... Everyone from the king to the beggar is fed by the farmer with the magical miracles that he created by partnering with the soil, rain, sun, and nature around him.

His soil is his only wealth, his cattle are his pride, and that first droplet that is delivered from the colorful heart of the clouds is his guest. The land embankment is his bed and that one tree at the edge of the field is his only shelter at all times. Wherever he is, his mind and soul belong to his land.

Nothing is comparable to the relentless hard work that he does in harvesting every single grain. He never stretches out his hand in front of anyone. He lives on his own hardwork.



He is a super hero who can be  
a civil engineer, at the times when  
he is building mini dams to control the  
flow of water in his land.

a great rider of his own manufactured  
carts with the help of his right hand and  
left hand(Oxen/bulls)

a scientist, while searching for new  
fertilizers & insecticides to protect his  
land.

a doctor, while protecting his cattle  
& land with the medicine he knows.

a circumspect person, always ready  
with the next step and predicting what  
will happen  
and finally, an optimist who always hopes  
good to happen for all.

“Agriculture” is the only skill he knows. He cannot go anywhere leaving his house, parents, his brothers from work the two Oxen and his village. His land is his only world. So, he is not leaving the agriculture, though he is drowning in the debts. While he is in his field learning as a newbie on how to protect his crops from the weeds, the merciless weeds and leeches outside there are trying to leech off from him. All the hard work he did to cultivate is being owned by those crooks. He is left with no option. He has to do so because of the debt lords and trespasses.

We all are harming him knowingly or unknowingly, while he's been working so hard as a soldier to arm us. In the name of development & industrialization, the smoke chimneys are protruding from the hearts of irrigating lands. The word “farmer” is slowly disappearing from the dictionary of land. We have come to such a situation that the count of the tablets that we are taking and the grains/paddies we are having is almost equal.

Despite all these obstacles as the saying goes he never gets flustered, he doesn't work till the sun goes down but he works till the works get done. He will be there in the farm till the day he dies.

We all say ‘Farmer is the backbone of our country’. We also do know without a backbone there is no structure to a body. But we are not realizing that if there is no farmer then there will be no space for this development looking at which we are over the moon, even the country and the people. As the great agricultural scientist M.S.Swaminathan said, *“If agriculture goes wrong, nothing else will have a chance to go right in the country”*.

But the saddest reality is that we came from the situation that farmer is the one who feeds the whole world to farmer is the one who gives up his whole life because of the same world!

A suggestion to farmers: Never choose the wrong way for those nasty people, who not at all care about you a little, though you are the one who is filling their bellies keeping yours empty.

Not in the form of words, songs or movies, let's show our respect in hands.

Ending with the phrase *“Once in your life you need a doctor, a lawyer, a policeman and a preacher, but every day, three times a day, you need a farmer”* that says a lot.

- Inspired from real life scenarios and other sources.

*! Annadata Sukhibhava !  
!! Jai Jawan Jai Kisan !!*

*- Chintala Sravani*

# Pollution

Pollution is the introduction of harmful materials into the environment. These harmful materials are called Pollutants. Pollutants can be natural,such as volcanic ash,dust particles. They can also be created by humans like burning of garbage,smoke from vehicles,waste from factories etc.. Depending upon on nature they are divided into Quantitative and Qualitative pollutants. Depending upon the form in which they persist after being released into the environment they are categorized into Primary and Secondary pollutants. From the ecosystem point of view, i.e., according to their natural disposal, pollutants are bio degradable and non-biodegradable pollutants.



There are many different types of pollutions , some of them are Air, Water, Soil and Noise Pollutions.

Firstly, Air Pollution is a mixture of solid particles and gases in the air emitted from car, chemical factories, dust and pollen etc. Ozone gas, is a major part of air pollution in cities. Causes of air pollution are vehicles, powerplants, oil refineries, agricultural areas, wood burning fireplaces, wild fires, wind-blown dust and volcanoes. Some of the effects of air pollution are:

- Air pollution can affect lung development and is implicated in the development of emphysema, asthma and other respiratory diseases.
- A large study over more than 57,000 women found that living near the roadways may increase a women's risk for breast cancer.
- Higher air pollution levels may result in short term respiratory infections.
- Fine particulate matter can impair blood vessel function and speed up calcification in arteries.



Air pollution affect everyone's health, but certain groups are more vulnerable. Ways to reduce air pollution are less usage of automobiles, not to use plastic bags, using energy efficient light bulbs and appliances, reduction of smoking and air coolers, usage of filters for chimneys and implement afforestation.



Secondly, water pollution occurs when harmful substances like chemicals, microorganisms contaminate stream, ocean, river, lake, degrading water quality and rendering it toxic to humans or environment. Causes of water pollution are industrial wastes, Marine dumping, Sewage and waste water, Oil Leaks and Spills, Global warming. Some of the effects of water pollution are:

- Consumption of polluted water is a major cause of ill health like cholera, dysentery, tuberculosis, jaundice.
- It destroy aquatic life.
- Agriculture discharges include fertilizers, pesticides which are toxic to both aquatic and human life.
- Industrial wastes containing lead, arsenic, mercury, cadmium damages liver, kidney, neurological disorders, lung cancer etc.

Ways to reduce water pollution are to prevent disposal of wastes and oils into rivers, avoiding flush of medications or drugs into toilets, etc.

Thirdly, Soil pollution is caused by presence of chemical substance from industries, agricultural pesticides, improper disposal of waste in natural soil. Causes of soil pollution are micro plastics, mining activities, acid rain, agrochemicals, drainage of contaminated surface water, waste disposal into soil. Some effects of soil pollution are:

- It will increase the exposure to toxic substances which effects human health.
- Decreases the quality and quantity of crop.
- Disturbance in balance of flora and fauna.

Ways to control soil pollution are reduction in usage of pesticides, improvement in cropping techniques, selecting special pits for dumping wastes.



Fourthly, Noise pollution is considered to be any unwanted disturbances of sound that effects the health of human beings, organisms, etc. Causes of Noise pollution are vehicles, construction sites, loud speakers, industrialization, thunders etc. Some effects of Noise pollution are:

- High blood pressure,
- Phycological disorders,
- Hearing loss and Sleep disturbances

Ways to reduce Noise pollution are planting more trees, using less horn while driving and using loud speakers at low volume.

Maintaining the health and clean environment is not the sole responsibility of the government but also includes each individual to control pollution and safe guard our environment and also our lives. A healthy environment increases the quality lifestyle and changes birth to death ratio for better. So, at last I want to say that humans' health depends on the environmental conditions. Thus, taking such safety measures would prominently save the environment from getting devastated.

- Tejaswi Rayidi

Hey you! Yes, you.  
Can you stop polluting this planet?



# Message to Freshers

Greetings to you all. We are heading towards a new calendar year. We are glad that freshers are also joining for adding energy, excitement and dimensions to our celebration. I hope they are finding exciting and getting new experiences here. As they are completely new to this engineering life, I being their senior and having a short experience want to give them a small friendly message.



Firstly, a very heartily congratulations and warm welcome on joining the college after intense hard-work and determination. You guys are going to start a new and fresh journey of life, full of new challenges, interactions, milestones and achievements. *But most importantly you will see yourself living with your dreams and immensely enjoying it.* About an year ago, I also started from same stand excitingly, looking forward to start a new journey.

Remember one thing -Even the greatest were beginners. Don't be afraid to take that first step. This upcoming four-year journey is going to be the best rollercoaster ride of your life you ever experienced with full of fun, new interactions, knowledge and growth. Once this journey ends you will try to recreate and relive the beautiful journey and memories you had with your classmates and faculties.

Until this time you had your time in schools. Once you enter the college the most frequent questions flashing in your mind will be like- How to interact with seniors and faculties? How should I get mixed with people and adapt with the new environment? How to plan future career? How to plan academics and extracurricular activities? How to achieve our goal? What is scope of technology and how to get benefitted? and many more. Just relax! We seniors are here to suggest you the best solution of your queries. There are no strangers here but friends you haven't met. I too have gone through the same. But as I moved ahead, I got all answers gradually in positive sense and hope you will surely have.

Going further, this place is not all about education and training but it is the place meant for building a personality, an attitude, a character and improving versatility and grooming skills and talents. Not only in academics but in extracurricular activities, you will be provided equal opportunities to showcase your talent. Mind one thing your senior can be your best friend and career guider if you show respect, curiosity and discipline. Be respectful, co-operative and interactive with faculties. Always be punctual with submission of assignments, projects etc. and avoid plagiarism. "*The fruit of your hand work is the sweetest!*". This will enhance your skills, self-confidence, punctuality and you will perform better in academics.

Now apart from academics, equal stress should be given over extracurricular activities too..

We are mostly accustomed to do individual projects till now. But here you will also get to perform team projects, may be with your mates or seniors. So, in this way you will learn team work and team spirit involved for completion of projects which will be helpful for higher studies and placements. It is well said "*Don't try to be perfect. Just try to be better than you were yesterday*". Excellence is not a skill, it is an attitude. John Ruskin said—"Skill is the unified force of experience, intellect and passion in their operation". So, try to be skillful and grab every opportunities which come to your way.

Before concluding, I wish these upcoming four years the most inspiring, successful and happiest journey of your life, taking the legacy of our college to a different height. Congratulations and welcome once again.

- *Mukesh Kumar*

# Photography section



change your lens, change your story



- *Kola Varunchandra*

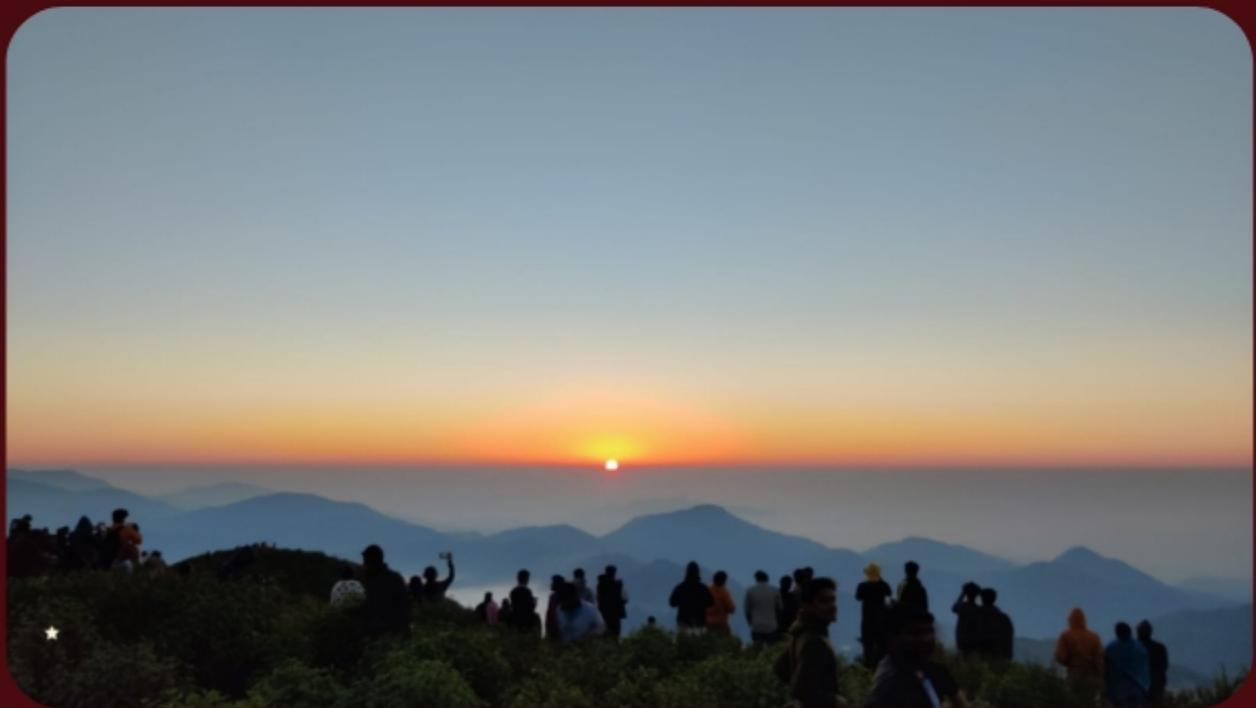


- *Bharadwaj Routhu*





- Chintala Sravani



- N Lakshmi Saranya

# Book Review



# *The Wedding*

## *Nicholas Sparks*

This is the story of the 1st daughter of Noah and Allie Calhoun(originally encountered in the book “The Notebook”). Her husband Wilson makes her fall in love with him all over again after 30 years of marriage with the advice of her father Noah.

This story revolves around Wilson’s daughter’s marriage arrangements and how Wilson makes his wife fall in love with him during the time nearing their 30th anniversary with flourishing memories of their past love which is no longer there between them.

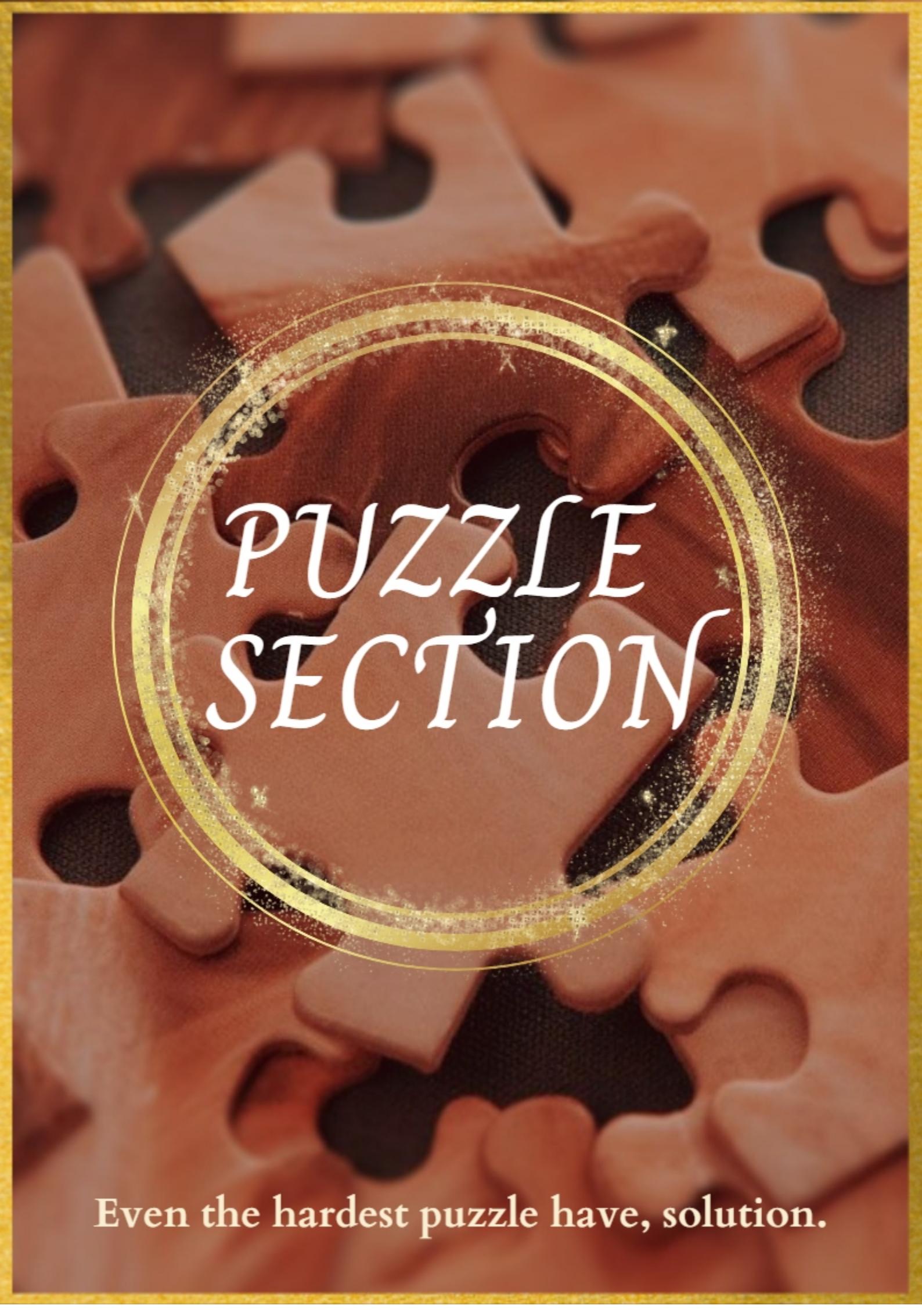


You might feel like dropping the book in between because it is deviating from the actual storyline and focused more on their daughter wedding arrangements but in the end, it is all worth the read.

I felt that this book has too much details for every small thing, which might feel boring and their love is not completely lost but Wilson was not romantic which led to an unpleasant marriage life.

I would recommend this book for those who are interested in reading love genre which is different from the normal and traditional love storybooks where the two people fall in love for the 1st time.

*- Review by S Lavanya*



# PUZZLE SECTION

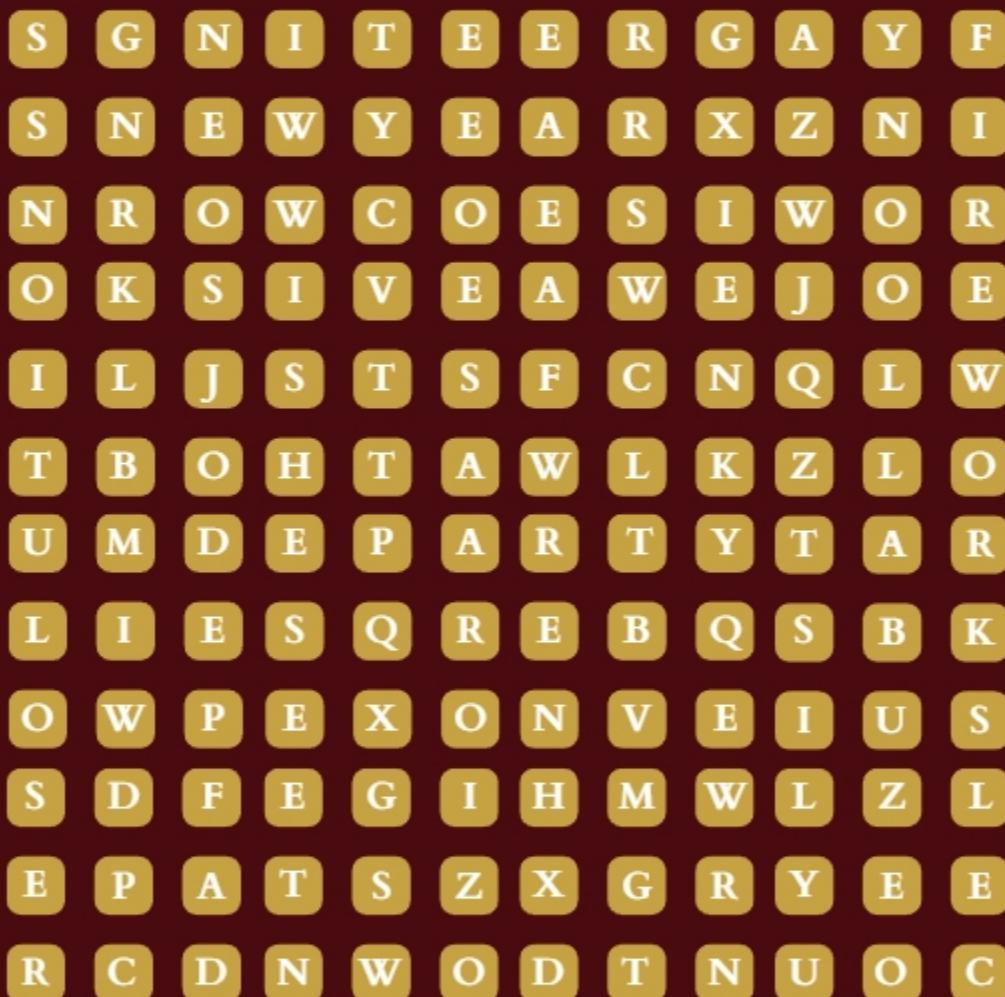
Even the hardest puzzle have, solution.

# New Year Word Search

Fireworks      Greetings      Party

Resolutions      Countdown      Wishes      Sweets

Balloon      Newyear      Celebration

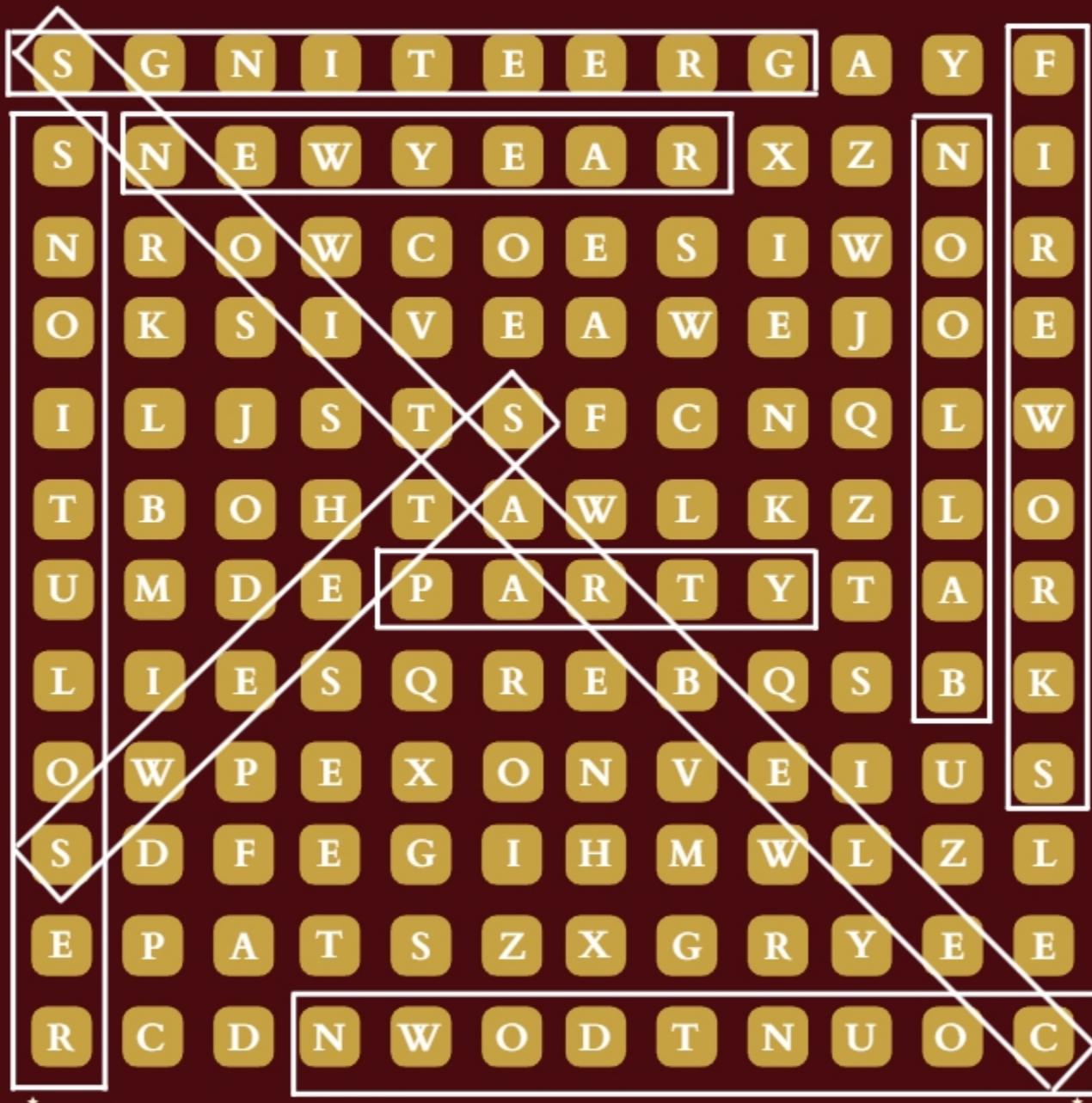


No cheating guys!  
Let your brain strain for some more time



I know you will come here,  
before finding the answers  
I will come here.

# Solution



# Wings of Sandwich

*Nishit Mangal*

*Nunna Lakshmi Saranya*

*Adeep Hande*

*Chintala Sravani*

*Shubham Kumar Bhagat*

*Dip Patel*

*Vemuri Bhavana*

*Ayush Singh*

*Harsh Kumar*

*Tejaswi Rayidi*

*Gautam Dadhich*

*Suman Raj*

*Rishank Goyal*

*Simmi Raj*

*QR for Previous  
Magazine*

