

# ZESTA

**KPRIET HIGHLIGHTS 2023** 

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Fond Memories

Editor in Chief
Dr. M. Akila
Dr. M. KPRTET
Principal/KPRTET
Compiled by
MNC

### A journey of a thousand miles begins with a small step - Lao Tzu

The vibrant team of KPR Brothers, M/s. K.P.Ramasamy, KPD Sigamani & P. Nataraj, the first generation entrepreneurs from an agricultural family of a remote village, evolved their tiny business 'KPR' into marvel entity through their strenuous and enduring team efforts transforming the lives of rural folks. From a humble beginning in 1971 with 4 Power looms and 4 employees at their father's barn with a slender capital is now one of the leading textile conglomerates in India, built on fabulous values. In the early years of this millennium, the dynamic trio realized that vertical integration of all processes—from spinning, garmenting and processing — afforded better quality control, service, and better customization of products according to customer specifications as well as competitive pricing. So, in 2005, they set out to create a self-sufficient vertically integrated facility by merging all group companies and incorporated the all-encompassing K.P.R.Mill Limited. KPR's strong fundamentals entailed establishment of 12 state-of-the-art manufacturing facilities, in and around Coimbatore, Tamilnadu, employing over 24,000 dedicated employees. With strong footing in Textile Industry and having empowered by strategic business plans, KPR has spread its wings to Sugar, Power Generation, Ethanol, Automobiles and Education. Its quest for quality, excellence, transparency and good governance elevated KPR as one of the Top 500 Companies in India and ranked its Management as one of the top 100 CEOs of India for consecutive years. Its indulgence in green energy initiatives, eco-friendly activities and human values up-gradation in pursuit of social cause is noteworthy.

Today, KPR manufactures and markets Cotton Yarn, Special yarn, Knitted Fabrics, Readymade Knitted Garments, Sugar and Ethanol. The 'Wind Power' coupled with 'Co-gen Power' that meets most of its power requirement, boasts of a healthy bottom-line. Empowered with strong Textile Exposure and core technical competence, KPR has embarked into Retail segment by introducing its FASO Brand Men's innerwear and Athleisure wear. Entire FASO products are manufactured with 100% sustainable organic cotton, super fine compact yarn, super soft micro nylon elastics with the best workmanship ensuring ultra-soft comfort and skin friendly. To enlarge its export business, KPR has established an office at Singapore.

KPR's success may seem massive and its achievements impressive. Then again, this is just the beginning; there are miles to go and more feats to accomplish.





# Recapitulation of KPRVET

KPR Institute of Engineering and Technology is carving out its niche in the map of global arena with exceptional and phenomenal learning culture. Its journey is filled with momentous achievements making its way steadfast towards the pinnacle of success. Having incepted by KPR Charities in 2009, the institution is promoted by KPR Group, a renowned business house in India with interest in Textiles, Wind Energy and Sugar. The Institution is approved by AICTE and affiliated to Anna University, Chennai, conferred with Autonomous status in 2019 and is Accredited by NAAC with 'A' Grade. It is the youngest institution to acquire the most eligible accreditation by NBA (CIVIL, CSE, ECE, EEE, and MECH). The Institute is dedicated to offer an unparalleled learning experience to the budding engineers, transforming them as productive engineers and promising entrepreneurs.

With the motto to learn beyond, KPRIET has embraced novelty not only in applying knowledge but also in imparting knowledge. It is known that KPRIET is acknowledged for its best practices in upskilling the students and whetting their talents. We offer quality education with an adroit team of faculty members and is featured with world- class infrastructure, well-stocked library, excellent placement record, higher education opportunities and holistic education. Having facilitated with cutting—edge laboratory and propitious internship offers, the institution provides a conducive environment to experiment with unique student projects, in order to produce skilled and creative engineers. The culture of KPRIET is rich and holistic with significant academic accomplishments, avant—garde pedagogical methods, progressive and prospective research and phenomenal placement record during the fetters of the excruciating pandemic. The communal service of KPRIET has been colossal and enormous benefitting a huge multitude under its vicinity. No doubt, KPR Institute of Engineering and Technology stands tall as one of the best destinations for world-class education.



# Chairman's Thoughts

To behold the flair of brilliance and excellence, one has to experience the global learning culture established at KPR Institute of Engineering and Technology. It is overwhelming to observe the exponential growth of the institute and I am deeply moved by the meticulous and conscious efforts of the young minds. KPRIET has rocketed towards a horizon of triumph under a leadership that is resilient and assiduous. With an innovative curriculum that befits the Industrial Revolution 4.0, an exponential growth is certain and evident. Widening the learning space to cater the aspirations of International students ascertains that the transformative education at KPRIET has touched global standards. The testimonials by the stake holders, chief guests and special invitees validate and corroborate the strenuous labour of the administrators, students and professors. This magazine 'ZESTA 2023' is a cartouche of resonating impressions that unveils the trailblazing ventures of the Institute, It also throws light on the elucubrating endeavours of the students to prove their metal. The beguiling depictions of the magazine serves as a spark that could kindle the creative fervor of the future generation. The Institute has tapped the resources to the fullest to unleash the creative potential of the students and faculty members. I congratulate and appreciate the contributors of the Magazine ZESTA 2023 for recording the historic instances of KPRIET.

Dr.K.P.Ramasamy
Chairman, KPR Group

# From Principal's Desk

The astounding triumph of KPRIET is an outcome of a colossal labour coupled with brilliance for a period of 14 years. Embarking on an intellectual expedition has favoured the institution to explore and incorporate practices that are innovative, sustainable and disruptive. The experiential learning environment has created an ecosystem in tandem with industry 4.0. Having research at its axle, KPRIET has shifted to high gear to cross boundaries throttling the tagline 'inspired to innovate'. We are fuelled with a vision to create progressive engineers who could make a difference in the world through their creative and problem solving skills. The institution has embraced core values that taps and whets the 21st century skills of the students to encounter global challenges. Resourced with professionals from industries and corporate companies, KPRIET has fostered a culture that is professional, holistic and unique. Needless to say, KPRIET has evolved as a brand that spells success with tangible outcomes in various spheres like employability, entrepreneurship and higher education. This magazine 'ZESTA 2023' is a throwback of a magnificent academic year 2022-2023, that resonates the outstanding measures and momentous episodes of KPRIET. Capturing and treasuring the spectacular seconds traces the milestones that are reached, borders that are crossed, and a journey that is adventurous. It is hard to go unnoticed the relentless efforts of KPRIETians and I appreciate and applaud the students and faculty members who have added colour to the pages of this magazine. I wholeheartedly congratulate the Head of the Institution, Heads of the Department, Faculty members and students for the successful release of the magazine.

Dr.M.Akila
Principal, KPRIET



# Voice of the Editorial Board

Freezing the fantabulous phases of KPRIET is a gratifying and exhilarating exercise that soothes the heart and elates the soul. With every flip and turn, there lies a gripping story that brings smile and admiration in every face. This magnum opus, 'ZESTA 2023' is an ode that rhymes with the richness of KPRIET and vibes with the tune of its victory. Stashed between the sheets are those marvellous masterpieces of the budding minds that are fresh in expression and everlasting in impression. The magazine, 'ZESTA 2023' presents the rich conspectus of KPRIET's progress and it's thrive towards emerging as a Global Educational model. It also showcases the stunning and sterling mastery of students in various spheres such as academics, innovation, fine arts and communal services. 'ZESTA 2023' is like a souvenir that nourishes spirit of comraderie and chronicles the collaboration with Bureaucrats, Industrialists, Professionals and Academicians through testimonials. The Editorial board extends its appreciation to the students and faculty members for their hard labour in turning this magazine, a feast to the eye. The Magazine and Newsletter committee expresses its undying gratitude and indebtedness to the Management, Principal, Directors, and Heads of all Departments, Committees and Cells for relentlessly pillaring us in the successful release of the Magazine ZESTA 2022.



Magazine & Newsletter
Committee



# Annual Report 2022-2023

The splendid flag of KPR Institute of Engineering and Technology is flying high trumpeting its magnificence and excellence in terms of academics, research, innovation, industry institute partnership and placement. KPR Institute of Engineering and Technology (KPRIET) stands out as a leading institute of academic excellence by imparting technical, intellectual and professional skills to students. This Annual Report brings to light the triumphant account of the academic year 2022–2023.

### **Statutory Body**

Having rendered thirteen years of unparalleled learning experience, the institute functions as a self – regulatory body under the governance of the statutory committees like Governing Body, Academic Council, Standing Committee, Board of Studies, Finance Committee and Internal Quality Assurance Cell. The horizontal organisational structure of KPRIET is spearheaded by the Principal and is operated under the headship of Registrar, Directors, Heads of the Departments with a motto, 'Inspired to Innovate'. KPRIET has widened it's horizon in this academic year with 12 UG Programmes, 4 PG Programmes and 10 research departments. The Institution focuses on skill development and innovation through 63 Non-Statutory Committees and Centres.

### **Students Strength**

The institution is soaring high with a multitude of 4000 students, out of which 111 students are pursuing PG Degree. In terms of Research, 31 scholars are



pursuing full time research and 145 Scholars are pursuing part time research. It is evident that KPRIET has secured a promising position in the global map, as we have a sect of more than 100 International students from UK, Singapore, Nepal, Sudan, Saudi Arabia etc. I would like to take a moment to share our adoration towards the magnanimity of the management, because a huge lot of 191 meritorious students have the privilege of being educated under KPR Scholarship, Further, I'm proud to mention that in the upcoming academic year our Chairman, Dr. K.P. Ramasamy has been generous to sanction Rs. 2 Crore, as scholarship under various categories.

### **Trailblazing Initiatives**

With a team of 276 proficient and adroit Professors and 281 trained administrative staff, KPRIET has raised its bar and moved mountains to the marvel of its stake holders. Let me share a few of our remarkable academic initiatives.

- Inception of Experience Engineering, a Phygital Learning Centre cum Museum, established joining hands with L & T, worth 7 Crores.
- Erection of the state-of-the art Robotics and Automation Centre, worth 5.25 Crores.
- Launch of FISK (KPRIET SDG Innovathon Framework) by Honorable IT Minister, Thiru. Mano Thangaraj.
- Incorporated Digital Learning Platforms like Coursera and NASSCOM through MOUs and have offered more than 150 free online courses to students and faculty members, as a part of curriculum.
- KPRIET has organised more than 300 events in support of Sustainable Development Goals, out which 256+ events have media visibility. In addition, 48 policies have been implemented to support UNSDG. Further, initiated Carbon Net Zero Initiative and we have a Non-Statuary Committee striving for the same.
- On boarded around 42 experts from Industries, Professionals from Corporates, Entrepreneurs and HRs etc. for the signature event Synergy '23 – an event that has bridged corporates and academia.





#### **Academic Performances**

To have a glimpse of our academic performances, let me present the academic progress of the year 2022 - 2023. In the ODD Semester, the overall pass percentage of the Institute is 87.52 % out of which the pass percentage of II Year is 83.80 %, III year is 88.25 % and final year is 91.79 %. A huge strength of 831 students and 145 faculty members have completed courses in NPTEL. Pertaining to NASSCOM, I am happy to state that 3013 learners have completed NASSCOM online certification course. Further, around 3278 learners have completed the LnT Course and 3702 learners have completed Coursera Courses. Let me take a moment to mention that Ms. Sentisenla I Jamir of III BME has qualified the GATE Examination with the All India ranking of 298.

### **Ranking and Accolades**

KPR Institute of Engineering and Technology has tailored its triumph by measures that are mighty and magnificent. At this juncture, I feel honoured to propagate a few of the sterling trophies and laurels of the Institution.

- Positioned between 201-250 band in the NIRF ranking 2022 under Engineering category.
- The Institute is ranked between 601-800 band at the International level in "T- H- E IMPACT Ranking 2022 under 6 SDGs" by Times Higher Education.
- Recognized as the band "Excellent" in Atal Ranking of Institutions on Innovation Achievement (ARIIA) 2022.
- First College in Tamil Nadu to receive Diamond College rating by QS I Gauge
- Received Institution of Happiness Award from QS-I Gauge
- Recognised by NPTEL for Best Faculty Performance for NPTEL Online Certification Courses.
- 5 Professors namely Dr. S. Ravishankar, Dr. P. Manojkumar, Dr. A. Karthick, Dr. E. Ranjith Kumar and Dr. D. Vigneswaran are listed as Top 2% Scientist by Stanford University USA.
- Lt. Dr. A.K. Priya has joined ICAR Indian Institute of Soil and Water Conservation as a visiting professor under Young Scientist Fellowship Scheme of the TN State Council for Science and Technology, Chennai.
- Certified as Great Workplace by the Great Place to Work Institute, India, for two consecutive years. KPRIET deserves this award so rightly, as it has surpassed all expectations in offering a favorable environment to its employees, especially women, as we work in an encouraging and safe environment. As a testimony to that, we have also been bestowed with India's best workplaces for women 2022. We all are grateful and indebted to the management for their relentless support during the pandemic both financially and morally.





Times Higher Education (THE) Impact Ranking - 2022

601-800 band



### **Accolades by Students**

The students of KPRIET have emerged victorious in multiple fields like innovation, automation, sports, technical and non-technical activities etc. Let me highlight a few of their outstanding measures,

#### **Technical Contests**

- Ms. M. Swathika and team of IV CE won 2nd Place & received Rs.7000/-as cash price in ACI cube contest.
- Mr. Siddarth and team of III CE bagged 1st Place & received Rs.10000/- cash price at ACI Cube contest.
- Mr Visva KS of IEE has bagged 1st place and received a cash prize of Rs. 40000 & Mr. Dhanush K.S of IME secured second place and received a cash prize of Rs. 25000 in India's largest Techfest-ROWBOATICS-competition where out of 150 Indian teams, they completed the track within 21 and 23 seconds in RC boat competition at IIT Bombay.
- Deepan of II EEE & Dr. Arivazhagan S, Innovation Officer have secured II Place and III Place respectively in National level Boat Racing contest Wavez' 23.
- Mr. Dhanush Kumar and team bagged 2nd place with cash prize of Rs. 25000/-in TECHFEST 2022 at IIT Bombay.
- Mr.K.Lalith and team has won 1st place with cash prize of Rs. 50,000; Mr. S.Madhavan and team secured 2nd place with cash prize of Rs. 30,000 and Mr.S.Dhanush Kumar has won 3rd place with cash prize of Rs. 20,000 in ROBO OCEANA EVENT at IIT Madras National Technical Event Shaastra 23.
- Mr.R.K.Sri Shyamnath of II EC was positioned 23rd Rank in the Campus ambassador program in IIT Delhi.
- Mr.M.J.Ranil Mukesh & Mr.G.Prabhu of I AIML secured Abroad Internship at "AI and Imaging Technologies" in Denmark Co. Ltd, Japan.
- Mr.G.Satish and team positioned Second with cash prize of Rs.30,000 in Hackathon on "CCTV footage analytics" at Greater Chennai Police's Cyber Hackathon.
- Mr.S. Saketh of IICS got qualified and received the JLPT N4 Japanese Language Proficiency Certification.
- Mr. Kumaran of II Chemical has qualified the professional certification, NAT-Q5 of Japanese language.
- Mr. Hemanth P has successfully completed A1German Language International Certification.
- Mr. S.Sukant and Team secured 1st place with cash prize of Rs.10,000 in Drone Racing; Mr. S.Sukant and team bagged 1st place with cash prize of Rs. 8,000 in Hovercraft Racing and Mr. Akhshaikumar and team was positioned 2nd with cash prize of Rs. 4,000 in Hovercraft Racing at GMR Institute of Engineering and Technology.

### **Sports**

- Mr. S. Pannai Alangara Pandian secured 1st Place in Javelin Throw at Vishwankar 61st Junior and Senior Athletics Championship 2022.
- Mr. P. Balaji has bagged Gold Medal & Silver Medal in U-21 Male Kumite (67kg) & Senior's (67kg) and Mr. G. Bharath has won Gold Medal in U-21 Male Kumite (50kg) at 31st Coimbatore District Karate Championship 2022.
- Ms. S. Susmitha secured Gold Medal in U-19 Category at 2nd Coimbatore District Roller Skate Basketball Championship 2022.
- Ms. S. Ruth of III BM has won Bronze Medal in 800m Junior District Athletic meet at Coimbatore District Athletic meet.
- Mr. P. Thanuskodi Adhityan secured the Silambam Mass World record 2022 and India Book of World Records.
- KPRIET Women Volleyball Team, Women Badminton team, Women Tennis Team and Men Tennis Team have secured 2nd place at Anna University Zonal IX.
- The sports team of KPRIET have bagged 40 Trophies in Anna University Zone IX Tournament; 6 Trophies in Anna University Inter-Zone Judo Championship and 13 trophies from other institute events.
- Mr.S.A.Jetheash of III EE secured Gold medal in Chess Game at YSPA Youth National Championship 2023.
- KPRIET Men Cricket Team bagged the 2nd Runner up position at Anna University Zone IX Cricket Tournament.
- Mr.G.Bharath of II CS, represented at the National level Inter University Karate Championship for Men 2023 at Atal Bihari Vajpayee University, Bilaspur

#### NCC

- Mr. E. Pravin of III EEE has won Gold medal in Rifle Shooting at Nehru Air Rifle Academy.
- Mr.P.Hemanth Kumar & Mr.M.K.Jeyasakthivel Mani of 2TN Air Squadron represented Tamil Nadu, Pondicherry and Andaman Nicobar in the Republic Day Parade at Government of India.
- Cdt. Pradeep of Mechatronics dept. has secured silver medal in Obstacle training in Parakram event.
- Cdt. Kavin of Mechatronics dept. has bagged Best Cadet Gold medal in the Parakram event.

#### **Research and Innovation**

The quintessential factor that drives the institute to the forefront is research and innovation. The Centre for Research and Development, the Centre for Innovation, Centre for Innovation Incubation and Entrepreneurship Development and Industry Institute Partnership Cell have gone extra miles leading the institute to the pinnacle of success. The apparent and striking outcome of research include, 533 publications in Scopus, SCI, National and International Journals; 73 patent publications; and a total of Rs. 1.11 Crores received as Grants from various forums like TNSCST, CSIR, AICTE, DST etc.

#### **Centre of Excellences and International Collaborations**

KPRIET marches in tandem with Industrial advancements through Centres of Excellences like Robotics and Automation Centre, Drone Technology, Advanced Materials Characterisation Lab, Centre for IoT & AI, Centre for Energy Sciences and Engineering, Centre for Nanoscience and Technology, Bio Signal Processing etc..

The Institution has secured a strong alliance with academic and professional forums like LnT, Coursera, DSOL Global Academy and Consulting, NASSCOM Future Skills Prime, Quality Circle – Forum of India, ICT Academy, Confederation of Indian Industry etc..

Our International Collaborations have been propitious and resourceful with various Universities and Organisations like Centrale Nantes, esaip Ecole d'ingénieurs, Audencia Business School, Otago Polytechnic, Harran University, Sunway University, Mahsa University etc...

#### **Placement Record**

Now, let me furnish the astonishing and marvelling contribution of Career Development Centre. This year, we have a ground-breaking placement record of more than 750 offers as of now, with 40 LPA as the highest package and 4.5 LPA as the average package. Mr. Nigun Sanjay R of III CSE and Ms. Ms. Charuni of III AD have been placed in Autodesk for a package of 40 LPA. Around 100 companies like Hawlett - Packered, Zoho, Hexaware, Virtusa, Wipro, Infosys, Cognisant, Qpi, HCL, TCS, Bosch, Kone etc.. have recruited our competent students.

At this juncture, I place on record my gratitude towards our beloved Chairman, Dr. K.P. Ramasamy for his benevolence and philanthropy towards the teaching and learning fraternity. Having said that, I believe that KPRIET has recited a spectacular success story this year and in future, our journey shall tell more stories that are laudable and inspiring. I thank all the students, Professors and staff members for their tremendous contribution towards a successful year. Wishing you all good luck.



# Creative Caliber





# You Will Miss Lakhs of Lakhs Money Until !!! You Read This!

If you are in Electronics, Electrical, Computer Engineering or any other related steam this is for you.

How many of us know about VLSI design typically known as Chip design? The craze on silicon students who want something more challenging and creative than a routine software job can choose this field. Electronics students who are good at programming and have a strong analytical background, are well suited for this field. Nowadays Chip designing course is offered as a subject along with Electronics engineering. Apart from IC-related knowledge, one should also know assembly-level programming and 'C' programming.

The salary in India for chip designers range from  $\ref{thmu}$  1.8 Lakhs to  $\ref{thmu}$  23.2 Lakhs with an average annual salary of  $\ref{thmu}$ 4.8 Lakhs with 2-3 year of experience. And, Entry level designers pay well. The salaries of analog Chip Design Engineers in the US median salary from \$136,150.

Our government of India has cleared a ₹76,000 crore scheme for semiconductors that aims to make 85,000 High-skilled engineers under the chip to start-ups in the next 5 years. This clear move will create huge employment opportunities and improve the economy.

The government had provided a scheme for chip designers. The government will bear 50% of the expenditure under DLI (Design Linked Incentive scheme). The chip manufacturing giant Intel has opened a new design and Engineering Center in Bengaluru. The union minister of state, Rajeev Chandrasekhar, inaugurated the new chip facility.

### **Evolve**

From strangers to strangers with memories we evolve.

Wheels rotate. Move forward. Just to reach the same point.

Now you see it with whole new eyes.

The ones that sparkled before and still do but now, it glistens with tears.

Happy or sad, it's fathom to separate the two.

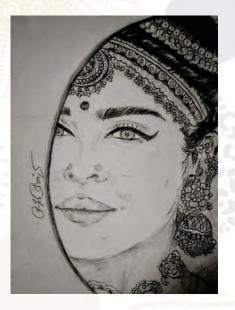
Years down the lane, flushed through in a second.

Garbage. Out.

Broken hearts. Broken minds. Broken promises.

We swim forward. And forward we swim.





#### Fathimathul Fuhaima P P - III Civil



## House Became Home

It's a brick and stone and wood that's hard, Some window glass and lots of doors .. But now the house BECAME

Asweet home,

I hope you remembered to bring the brooms to sweep that older house away!!

Make a space for moving day..

With your special and sweet HOME

This place is yours, love it well!!

R. Rajadharani - II CSE-B

### **Grief**

What is grief if not love unexpressed?

Their touch, smell and every other thing etched to your memory, Like a sore song that has turned to an ear-worm.

Sometimes burning, with no possible amount of water to quench. You get scorched in it!

And yet, there remains a warmth that sometimes embrace you, Without you knowing.

Fathimathul Fuhaima P P - III Civil









# **Drowning in ink**

She is drowning in ink
Hidden in crumpled papers
Not knowing how to think
The thought of losing her
Senses over a simpletons kink.

Prajeet Ragav R - I AD

### **A Cinnamon Story**

There once was a man as tall as the mountains, with arms as big as the ocean, with eyes as green as the September Meadows. He was so tall that the villagers called him to shoo away the thunderous clouds over their fields.

One fine day when the village elder woke up from his sleep, he saw a set of two big bowl-like green meadow eyes outside his window and jolted awake. Our 'little' big man had come to see him, to ask for his daughter's hand, for our man had seen her little blue eyes when he went wandering along the riverside.

The elder knew if he refused to give him his daughter, he would leave his village and he could not have that, for you see my dear readers, our little big man was very helpful. But the elder had no intention of sending his daughter off as he would have to climb mountain-high castle, to see her again.

So the clever little elder, told the tall man that he would give him his daughter to wed but only if he found the bark of a special tree. He told to our man, "you see son, my throat and nose, it's always sore, the alchemist told me if I drink a very special concoction made with grass that smelled like summer and the bark of a tree that smells like winter, I would be cured."

He asked to fetch the bark that would smell like winter, for he knew it was only found in a faraway Island, 'The land Way Under', they called it.

It would take years to get there by foot, for you, see my dear readers, our little man was afraid of seas.

So our man set out for the journey. And by foot he went in search for the bark that smelled like the winter. He journeyed many oh many lands and in one of them, he found himself in a plethora of many different trees and there it was a tall tree as tall as him. A red one to say the least.

He stood there mesmerised by its beauty. And as he stood there, awestruck, came in a tiny little fly that flew across his eyes. His hands flew across his face in a reflex and hits his cheeks too hard that it wobbled like the ripples in a lake. He stumbled upon a rock when he tried to fix his face and instantly tipped and fell, slamming his head hard over a tree right across him, so hard that a bark flew right next to him as he fell. 'It smells like winter', he thought as he felt his eyelids too heavy for him to make them stay open and he fell into a deep slumber knowing that he was going to get his girl finally.

# Excerpt - Hydrogen Fuel Cell passenger car market - TOYOTA

The Toyota Mirai is a hydrogen fuel cell electric vehicle (FCEV) that was first introduced in Japan in December 2014, followed by the US and Europe in 2015. The development of the Mirai began in the early 2000s when Toyota engineers started working on hydrogen fuel cell technology as a potential alternative to gasoline-powered vehicles. Toyota's research into fuel cell technology began with the creation of the first Toyota Fuel Cell Vehicle (FCV) prototype in 1992, which was based on a Toyota van.

Over the next two decades, Toyota continued to refine and develop fuel cell technology, with the goal of creating a vehicle that could compete with traditional gasoline-powered cars in terms of performance, convenience, and affordability. In 2002, Toyota unveiled its second-generation FCV prototype, which featured improved fuel cell technology and a more advanced hybrid electric powertrain. This prototype was used to test and refine the technology, and Toyota began leasing a small number of fuel cell vehicles to businesses and government agencies in Japan and the US.

One of the key challenges in developing the Mirai was creating a hydrogen fuel cell system that could produce enough power to drive a vehicle while also being compact and reliable. Toyota's engineers developed a fuel cell stack that was smaller and lighter than previous designs, while also improving its efficiency and durability. In 2008, Toyota unveiled the FCHV-adv, a third-generation FCV prototype that was capable of traveling up to 431 miles on a single tank of hydrogen. This prototype was used to test and refine the technology, and Toyota continued to lease a small number of fuel cell vehicles to businesses and government agencies in Japan and the US.





The Mirai was designed to be a practical, everyday vehicle, with a range of up to 312 miles and the ability to refuel in under five minutes. The Mirai also featured advanced safety features and a sleek, aerodynamic design. The company set up a dedicated team of engineers and scientists to work on the project, with the goal of creating a vehicle that would be both environmentally friendly and practical for everyday use

Another challenge was building a network of hydrogen fuelling stations to support the Mirai. To address this issue, Toyota worked with government agencies, energy companies, and other stakeholders to build a network of hydrogen fuelling stations across the United States, Japan, and Europe. Today, there are over 40 hydrogen refuelling stations in California alone, and hundreds of hydrogen fuelling stations worldwide, with more being added each year.

Despite the challenges, Toyota remains committed to fuel cell technology and the development of hydrogen fuel cell vehicles. In 2020, Toyota unveiled the second-generation Mirai, which features a longer range, improved performance, and a sleeker design. Toyota also plans to introduce more fuel cell models in the future, as part of its commitment to reducing greenhouse gas emissions and creating a sustainable future.

The development of the Toyota Mirai was a significant undertaking that required years of research and development, as well as substantial investment. The result is a ground-breaking vehicle that offers a practical and environmentally friendly alternative to traditional gasoline-powered cars. With the continued growth of hydrogen fuelling infrastructure and advances in fuel cell technology, the future of FCEVs like the Mirai looks bright...

**Dr. Kiruba Shankar** Professor & Head, Mechatronics





## **Radiant Sky**

The sky above us is eternal
It will never go void
It'll ever be infinitude
Wreaths itself with blue candy floss
With its everlasting belle and gloss
The raptor glide over the city
Like a never ending tale in a story
Searching for blazing planet, in spite of all
The beauty of the star goes under the pall
Gazing at the cotton candy skies,
Makes all the worries fly.

Terena Judith C - I CSBS

## Turning back time

And I wish that was easy,

Turning back time.

Mistakes un-made. Choices never pursued.

I wish it was that easy,

To erase the never wanted memories.

Like the sandcastles that are destroyed when the waves come in.

But my sandcastles are far ashore, never touching the hopeful waves.

But then came rain.

It trickled down, drop by drop.

Until the castles were crumbled. Turned dust.

And I waited for the warmth of happiness.

But all I could feel was the numbness the cold rain left behind.

And I wish it was that easy,

Turning back time.

I wish it was that easy.

#### Fathimathul Fuhaima P P - III Civil







### **Black hole**

Iam falling apart. Bit by bit.

Pieces shattered across the floor.

Trembling to walk by.

When did it become too hard to be undone,

When all it took was one mistake before?

Choices or mistakes? The line is blurred.

Peace at peace. A beautiful notion now unseen.

Fathimathul Fuhaima P P - III Civil

### Where I Belong

 $The \, Places \, I \, deserted \, and \, the \, paths \, I \, crossed$ 

Where on Earth do I even belong?

Fallen hopes and broken goals

Am I a myth moving with the waves of life?

Up and down, swirling and twirling

Trying to fit in

When I barely get in

The portals of the Worlds to find

Where do I even belong?

Lightning and Thunders are just scare crows

When I wonder about my future which who knows,

Then the sunshine hit the midnight rain,

Barring the logic jammed with magic

The day to answer 'where do I belong' finally appear

And let me be clear, the place is here

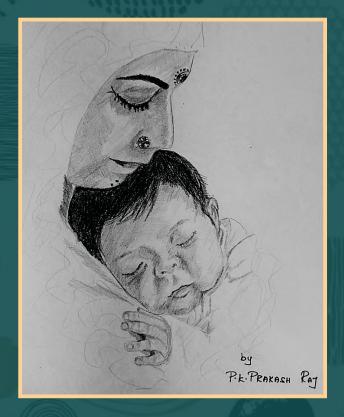
"Where I truly belong"!

Heera Y. R. - I AD











## அம்மா

கன்னம் சிவக்க முத்தமிட்டு கால் கழுவி விட்டு என்னை பள்ளிக்கு நடத்திச் சென்றுள்ளாய் என்னை வாரி அனைத்து, தலைவாரி மகிழ்ந்துள்ளாய் என் கால்களை தோளில் போட்டு கதை சொல்லி மிட்டாய் வாங்கி கொடுத்து மகிழ்ந்துள்ளாய் என் சுண்டு விரலை பிடித்து நடந்து சென்று ஏக்கத்துடன் பள்ளிக்கு அனுப்பி வைத்துள்ளாய் பத்து மாதம் வயிற்றில் சுமந்து ஆறு மாதம் மார்பில் சுமந்து எட்டு மாதம் இடுப்பில் சுமந்து என்னை பூ போல் கவனித்துள்ளாய் இப்படி என்னை சுமந்து சுமந்து வளர்க்கிறாயே நான் எப்பொழுது உன் சுமைகளை சுமக்கப் போகிறேனோ

ம. ஜே. சந்திர கௌரி - III Civil



















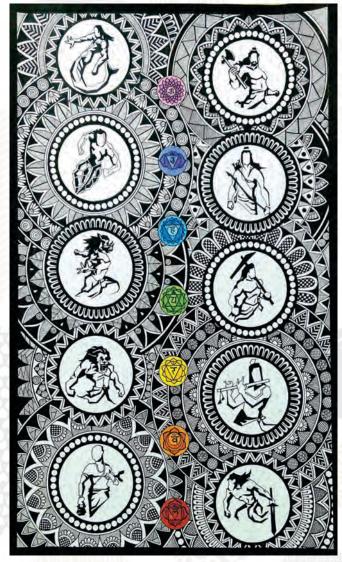


















# மகிழ்வித்து மகிழ்

மகிழ்ச்சி யென்று ஒருபிறவி மண்மீது எடுத்தோம் மலர்போன்ற மனதினிலே வாழ்க்கையினைத் தொடுத்தோம் நெகிழ்ச்சியான பலநிகழ்வு நம்வாழ்வில் நடக்கும் நெஞ்சமதோ கவலைகளை கொஞ்சகாலம் கடக்கும் பயிற்சியது வாழ்க்கை, பழகிய ஓர் பழக்கம் பாட்டாளிக்கும் பணத்தோருக்கும் வாழ்க்கையொரு வழக்கம் சுழற்சியாக சிலவிஷயம் சுற்றம்சூழ நிகழும் சுகமோடும் சுமையோடும் நம்வாழ்வு நகரும்....

எண்ணற்ற உயிரினங்கள் இங்கு வாழ இடம்... ஏனிங்கு நாம்மட்டும் என்றெண்ணல் மடம்... கண்ணுற்ற போது கவின்மிகுந்த பிழைப்பு கனிவாக இருந்தாலே களிப்பான அழைப்பு விண்ணுற்ற தெய்வங்கள் விரைந்துவந்து அருளும் விடியலே எந்நாளும்... வெல்லும்வரை தொடரும்... மண்ணுற்ற மனிதர்களே வலிமையோடு நகருங்கள் மற்றையோர் அனைவரையும் மகிழ்வித்து மகிழங்கள்

> முனைவர் தெ. கணேஷ்குமார் துறைத்தலைவர், உயிர் மருத்துவ பொறியல் துறை













# Snergy













# Synchronizing with the corporate climate and staying in touch with stallwarts





With elegant robes comes everlasting experience, excavating the new in oneself.





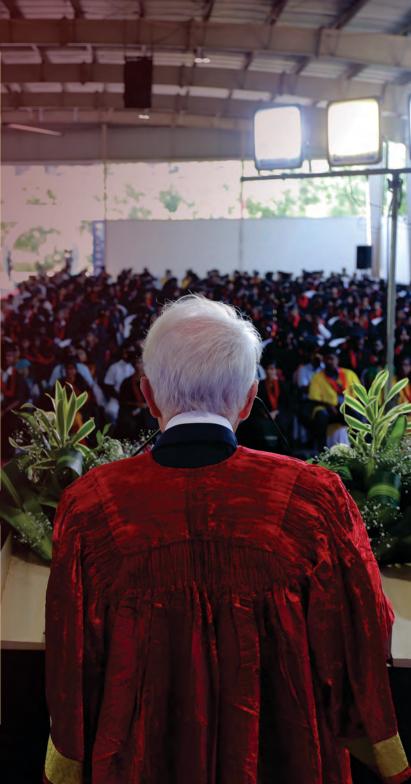
















Patriotism oozes with the swaying of the tricolor flag, leaving the soul at the servitude of mother India.



# Family Meet

Rejuvenating and rejoicing moments to bond, build trust and burst out laughing.





















**KPR INSTITUTIONS** 



#### Aura

An heavenly abode that is scented with the fragrance of care, roofed with the shingles of nature and shielded with the armor of safety.













#### Fiestaa 23

Fun and frolic sweeped into the premises loading every heart and soul with ecstasy and elation.











































A global community sharing its bliss, culture and tradition under one roof.









# First Year Anauguration







#### A Kick start of a fabulous journey to embrace learning beyond its horizon











# Asiriyargaludan Anbil

In conversation with the Minister of Education and the teaching fraternity to design the destiny of the young learners.













# Momen's Day

A legion of lion hearted ladies geared to transform the ordinary to extraordinary.





















## ART

















### Student Leadership Program













Leaders in the making, fueled with the ignition to fly high and be better citizens of today and tomorrow.









#### HISK Launch

An ambience to unscrew the nuts and bolts of creativity















# Experience Engineering











#### An ecosystem to exercise intuition and innovation at its best.



# Special Labs

A workspace to whet the skills, experiment and initiate ventures anew.













Budding engineers working fingers to the bone to turn an idea into innovation.



















### MASSCOM

Spelling out success for the industrious efforts of digi learners.





#### OCEAM

Traversing across boundaries to inhale the air the oneness and sense the breeze of culture.

















An alluring sight to appetize the mind, an enchanting performance to please the eye.



















A day to receive memorable Gifts and mementos from the gracious hands of Santa. A day to Cheer, make merry and be happy.

























# Tamil New Year

Welcoming the future in new light, hope and aspirations













# Ugadi

Recalling the values and principles of a righteous living by offering prayers to the Almighty.













# Vinayagar Chathurthi

A call on to the God Almighty to bless in abundance and bounty













# An extol to the props that keep us in good shape and strength













#### Service to the Community

























# Sangamam 23



The creative calibre is put into practice portraying nothing but the best of the craftmamship

















# Agnituron 23

Lighting the spark of innovation, knowledge and leadership.

A club house to mould the engineer in you.

























# Founders Day

Celebrating the soul that is selfless and honoring the heart that is humane.

A compassionate legend who captured and conquered the hearts of a multitude.













#### Fond Memories

















#### First Year









#### AD











#### BME







#### Civil









### CSE















### ECE











ECE



#### 











#### Mech





