



# ESKRA

## The Innovative Spark



CSE Dept. Campus Publication | R.N.G.P.I.T. | NOV-2019





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ESKRA

The word ~~ESKRA~~ by itself creates a different aura which can convey magical, supernatural and delightful feeling about something. Eskra is derived from the words E-magazine and Iskra meaning "Spark". This word creates an unbridled enthusiasm and curiosity in the reader's mind. As the Russian poet Alexander Ivanovich Odoevsky once said that "One spark will start a flame", we want our magazine to work as a spark which can ignite the flame of self confidence, self belief, self expression and thereby it can lead readers to a state of complete maturity and help them to learn something new about different topics frequently and to increase their knowledge thereby serving the society with their knowledgeable healthy brain for the purpose of betterment and happiness. This magazine creates a shared vision which acts as a beacon that illuminates our next generation.

We hope that after reading this magazine, they will be inspired to pursue a career in that sector, improve their verbal and nonverbal abilities so that they can write or articulate themselves in the same way as authors do. Starting from a mere spark something which can turn into a lava full of knowledge. We want to extend selfless service to others with one complimenting the other. Trying to learn more about the unknown. Our greatest achievements in the past should be eclipsed by our future achievements. The major goal of this publication is to be a catalyst by reacting to the current demands and obstacles.

--- TEAM ESKRA , CSE , RINGPIT

# Message from Principal's desk



“Opportunities don't happen, you create them”

-Chris Grosser

**W**e are currently confronted with a pandemic for which we have no experience as well as little preparedness. At a time when the entire world is waging war against Covid-19, Computer Science and Engineering department of R. N. G. Patel Institute of Technology, Surat has added another feather to its cap by creating an

enabling environment in the form of e-magazine for our students to express their creative ideas and expressions. I am extremely proud that our students have accepted challenges and taken the responsibility of providing an open platform for the students to showcase their talents. They have demonstrated their creativity and invention can never be turned off, even in the face of adversity.

Our students of CSE department have been placed in multinational companies like TCS, Wipro, Cognizant Capgemini, MindTree and well known IT companies in south Gujarat region like La Net Team Software Solutions, Bosleo Technologies Pvt. Ltd., Softstrom Systems Pvt. Ltd., Coderkuba Technologies Ltd, Colortex, AP-GAMEBIT, OOZEE Technologies, Solwin Infotech, Zujo Tech Pvt. Ltd., NJD Technologies, Square Infosoft, Potent Global Solutions, Cirkle studio, Determinant Studios, Glowderma Lab Pvt. Ltd., iRoid Solutions, Avinashi Ventures Pvt. Ltd., Fyp Money, Inkey Solution Pvt. Ltd., SRKAY, Infozium Solutions etc. with good initial packages in range of 1.20 LPA to 7.00 LPA. Also many students have been chosen to do higher studies at universities like Dalhousie University(Halifax, Canada), Concordia University(Montreal, Canada), Cleveland State University(Cleveland, Ohio, USA), Goethe University(Frankfurt, Germany), etc. and some students became entrepreneur.

It's not how good you are, it's how good you want to be. If you enjoyed making a thing, and you're proud of the thing you made, that's enough. Even on the darkest days, the essential abilities that everyone of us possesses will shine brightly. This is what ESKRA wants to do, and we hope that our students will achieve their ultimate goals.

Feel the Innovative Spark while Reading!!!

Dr. Latesh B. Chaudhari  
Principal, R.N.G.P.I.T

# Message from Head of CSE Dept., RNGPIT



**A** well-known Greek Philosopher Plutarch once told - “The mind is not a vessel to be filled, but a fire to be kindled.” Computer Science and Engineering department at R. N. G. Patel Institute of Technology believes in nurturing the talent of learners. I am delighted to see that the Computer Science and Engineering student team is producing ‘**ESKRA**’ November-2019 edition under the proficient guidance of the Institute’s academic mentors.

**ESKRA**’s mission is to keep community informed and fully aware of key topics, events, and accomplishments, as well as to provide a platform for the creative expression of ideas through writing and design. This publication is one of the **ESKRA** outlets for students to showcase their creative ideas and literal potential.

Even if we dwell in a technological institute, we do not have to limit ourselves to only a few subjects. I congratulate the mentors and students who used various mediums of expression to present their ideas. As long as our ideas are expressed and thoughts kindled we can be sure of learning, as everything begins with an idea. I appreciate every student who shared the joy of participation in co-curricular and extracurricular activities along with their commitment to curriculum.

I’m pleased to note that, in addition to academics and other college activities, many students participate in activities that allow them to express themselves freely, develop their talents, and broaden their intellectual horizons.

I am convinced that, just as our mother earth gives us more and more, **ESKRA** will enable our learners to give and get a little more of learning. It will take you to the insights of Institute’s best ongoing practices.

Happy Reading!

Dr. Madhavi B. Desai  
HoD & Associate Prof., CSE, R.N.G.P.I.T

# Computer Science and R.N.G.

## VISION OF DEPARTMENT

To create a holistic teaching -learning ecosystem with a vision to prepare globally competent computer professionals for the development of society and the nation.



## M.O.U.

- AspiringMinds, Gurgaon for Pre-employment skill enhancement test AMCAT and providing job opportunities in MNCs like TCS, Wipro, Cognizant etc and various reputed IT Industries.
- D-link Academy - An authorized Training Centre for D-Link certified Network Engineers.
- RedHat Academy in association with PrakshalITAcademy, Ahmedabad as a training provider for imparting new generation Linux skills inside our students through international certification programs namely RHCE and RHSE.
- Wifi Enabled Campus in association with Reliance Jio Pvt. Ltd.

# Engineering Department

## P.I.T.

### MISSION OF DEPARTMENT

- To ensure effective and efficient teaching learning process for sound fundamentals.
- To impart technical skill through effective hands on practice on advanced technologies and Value education.
- To prepare industry ready professionals by industry partnerships and entrepreneurs activities.
- To inculcate human values, research capabilities, leadership abilities and ethics in young minds.



### SIGNED

- Establishment of e-Yantra Robotics Lab under e-Yantra Lab Set-up Initiative (eLSI) by IIT Bombay.
- National Skill Development Corporation (NSDC) - Ministry of Skill Development And Entrepreneurship for skill development program.
- LoftySoft AB (Sweden), Getwings Technologies Pvt. Ltd (Ahmedabad) for setting up “IoT Lab” and Centre of excellence in future.
- To make students industry ready, CSE department has signed MoU for skill development, training, internship and placements with Coderkub Technologies Pvt. Ltd. - Surat, Escrow Infotech - Surat, Siliconbix Systems Pvt. Ltd.-Bardoli, Betonz Infotech - Surat.

# CONTENT TEAM

We want to make our **ESKRA'S** content exceptional and special yet classic and elegant. We are proud to say that this magazine is the outcome of our diligent work.



*"The society can only be better if we try to acquire right knowledge, rather than only knowledge"*

## WHAT WE CRAVE TO MANIFEST -

We are trying to provide the best quality of proficiency to every reader through the content of **ESKRA**, which can help them to acquire the skills that will help for their all round development leading towards the modelling of society having right perception about various topics and aspects of life. We will try to put together all the ongoing as well as important activities in this magazine along with technical knowledge so it will bring attention of every reader.



# DESIGN TEAM

Our thought process behind ~~ESKRA~~ was to bring easiness to the reader and direct their attention to the magazine's appearance.



*"The content give attraction, but the right combination of colours and content keeps the attraction"*

## WHAT WE CRAVE TO MANIFEST -

We are attempting to give a combination of nice colours that can glorify the information, therefore enhancing the readers' engrossment in reading and understanding the content swiftly. This section also demonstrates our undivided attention in the technological era and our yearning to provide a diverse range of topic and designs to our readers.

# WEB DEVELOPMENT TEAM

**ESKRA** is a forum for students to showcase their skills by contributing articles to the online college magazine website. We recognise the potential of social media in this digital era. In a nutshell, we did our best to create a website that would enrich the community.



*"The first impression gives last impression"*

WHAT WE CRAVE TO MANIFEST -

We are seeking to build the best website display possible in order to entice people to browse the site, read our information, and enhance their skills. We wish to build a user-friendly interactive environment for readers to learn about new things.



# ESKRA'S

The idea to start a technical magazine prevailed in the minds of faculties of Computer Science and Engineering department of R.N.G.P.I.T, which can provide a platform to the students of their department to showcase their web development, designing and content writing and embracing skills and thereby can also motivate the readers to do the same. Hence the discussion to choose a suitable title and logo started as they defines the glory of a brand, after many suggestions and discussion, the title 'ESKRA' which was inspired from the word 'iskra'. The journey began with the formation of web, designing and content team and thereby the flow of magazine development was decided by faculties of CSE dept. Mahendra Sharma, Saurabh Jha, Aadil Shaikh, Kuldip Patel, Dhiren Jummani were the primary drivers of the rapid decision and flawless execution of the work flow.

VOYAGE

# Faculty Mentors



**Mr. Nikunj Y. Kansara**  
(Asst. Professor CSE, R.N.G.P.I.T)



**Mr. Narendra V. Jagtap**  
(Asst. Professor CSE, R.N.G.P.I.T)



**Mr. Hemang J. Shah**  
(Asst. Professor CSE, R.N.G.P.I.T)

The student technical magazine, **ESKRA** is the ideal vehicle for exhibiting the dizzying heights to which R.N.G.P.I.T students have ascended.

Students of CSE, R.N.G.P.I.T. have always been encouraged to excel in academics, athletics, co-curricular activities and the latter have made us proud on numerous occasions. They have been provided with various opportunities to succeed in both academics and extracurricular activities as well.

As an Engineering institution, it is the students' primary responsibility to develop into responsible citizens who will live up to the country's aspirations while also working in the service of mankind. We confident that our students always share this commitment.

**ESKRA** is more than a magazine; it is a movement that not only acknowledges our peers' successes but also provides a forum for young authors, artists, and illustrators to present their work.

# Acknowledgement

Dear readers,

We are proud to say that **ESKRA** is an outcome of hard work of credential people to bring out this magazine to make a change in this society. Our department is fortunate to have collection of very expressive and knowledgeable students who have guts to express knowledge in their articles.

We are showing in debt gratitude to institute management for their encouragement and cooperation rendered for successful completion for launching of **ESKRA**.

We further want to present our gratitude to head of the department, faculty members and all my enthusiastic colleagues who have share their idea along with their valuable time, support and help to create such a smooth workflow.

Hence, once again we bow down our heads to our faculties for their untiring efforts given for upliftment to progress of our department and institute as well.

We are greatly thankful to all readers who are spending their valuable time to read our magazine and appreciating our hard work. We expect that it will help readers to increase their knowledge about various topics and inspire them to do commendable work for betterment of society.

The editorial board would like to thank all the members for their meritorious and sincere efforts in publishing this magazine.

--- TEAM ESKRA , CSE , RINGPIT

# Student Coordinators

BATCH 2016-2019

**MAHENDRA SHARMA**

**DHIREN JUMMANI**

**SAURABH JHA**

**AADIL SHAIKH**

**KULDIP PATEL**

*“Innovation is the ability to convert ideas into invoices.”*

*- L. Duncan*

*“You can have brilliant ideas, but if you can't get them across, your ideas won't get you anywhere.”*

*- Lee Iacocca*

*“Learning and innovation go hand in hand. The arrogance of success is to think that what you did yesterday will be sufficient for tomorrow.”*

*- William Pollard*



[www.eskra.rngpit.ac.in](http://www.eskra.rngpit.ac.in)

A Magazine by:  
ESKRA - Campus publication  
Computer Science and Engineering  
R.N.G. Patel Institute of Technology,  
Surat

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