



# Tech वृतम्

A Quarterly Institute E-Newsletter

July 2022

School of  
**Engineering**



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- Visits@ SOE
- Industrial Visit
- SOE Smart Hackathon 2022
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## PPSU

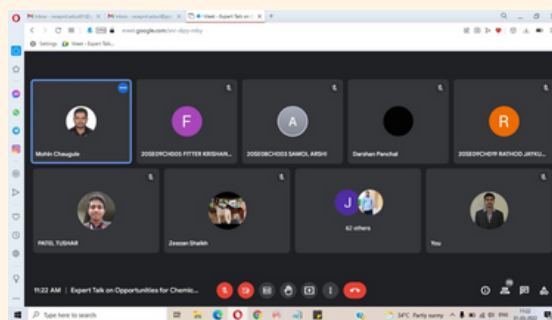
P P SAVANI UNIVERSITY

Encrypting The Journey Of  
Academic Excellence...

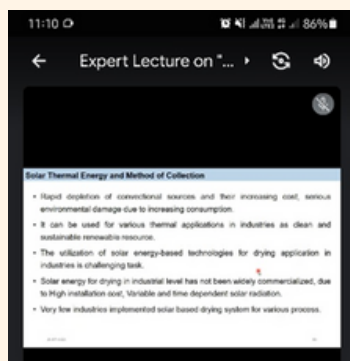


# Events of Academic Excellence

## Expert Talk



Mr. Mohin Chaugule, Operations and Technical, ADNOC Group of Companies, UAE conducted an online expert talk for Chemical Engineering students on "Opportunities for Chemical Engineers in Chemical Engineering" on March 31, 2022.



Dr. Abhay Lingayat, Assistant Professor, Mechanical Engineering, PCCOE, Pune conducted an online expert talk for Chemical Engineering students on "Solar Drying" on April 26, 2022.



Mr. Ridhwankhan Pathan, CEO & Founder – Linnpoint, Bharuch delivered an Expert Talk on "Multimedia Tools" for the 4th Semester students of Computer Engineering & Information Technology on April 19, 2022.





## Visit @ SoE



Students from various Diploma Engineering colleges visited School of Engineering on June 14, 2022.



## Industrial Visit

IICHe Chapter of PPSU, Organized Industrial Visit to Amul Dairy, Anand, for the 4th and 6th Semester Students on April 11, 2022. The students learned about Heating, Cooling, Evaporating, drying and Fermentation, where they were able to get details on the chiller and separator system.





## SoE Smart Hackathon 2022



School of Engineering organized Smart Hackathon on March 28, 2022 for the students of Computer Engineering & Information Technology. The event was organized by Mr. Akash Patil & Dr. Vikas Chomal, Assistant Professors, Department of Computer Science & Information Technology with an objective to inculcate culture of product innovation and a mind-set of problem-solving.

## Research Erudite

Dr. Jasleen Kaur, Professor, Department of Computer Science & Information Technology, published a research paper titled “Deep Learning and Super-Hybrid Textual Feature Based Multi-category Thematic Classifier for Punjabi Poetry” in Smart Innovation, System and Technologies, Springer.

Ms. Maulika Patel & Mr. Srikant Singh, Assistant Professors, Department of Computer Science & Information Technology, published a research papers titled

- “Sheath Blight Detection and Classification using Image Processing and Machine Learning” in International Journal of Research Publication and Reviews, Volume 3, Issue 6, 2022.
- “A Conceptual model using IoT to test ripening and diseases of fruit” in Dickensian Journal, Volume 22, Issue 6, 2022



Ms. Barkha Wadhvani, Assistant Professor, Department of Computer Science & Information Technology, published a research paper titled “Expert System to Foretell the worth of Pre-owned Vehicle” in GIS Science Journal, Volume 9, Issue 5, 2022.



Mr. Hardik Majiwala, Assistant Professor, Mechanical Engineering Department, published a paper titled “A state-of-art review of circular economy in the supply chain management: scientometric mapping”, Management of Environmental Quality, <https://doi.org/10.1108/MEQ-12-2021-0291>.



Dr. Rohit Khedkar, Associate Professor, Department of Chemical Engineering

- Published a paper titled MODIFIED PARABOLIC SOLAR COLLECTOR HOT-AIR TRAY DRYER in 10 th ICET Proceeding with ISBN Number 978-93-81288-22-1.
- Presented a paper entitled Method for Synthesis of Multicomponent Distillation A review in 2nd national conference in Innovation in Engineering and Technology.



Mr. Abhijitsinh Parmar, Assistant Professor, Department of Computer Science & Information Technology, published a research paper titled “Role of Machine Learning in 5G Device to Device Communication: A Survey” in the Journal of Optoelectronics Laser Volume 41, Issue 6, 2022.



Ms. Bhumika Shah & Ms. Bannishikha Banerjee, Assistant Professors, Department of Computer Science & Information Technology, published a research papers titled Review on Driver Distraction Classification to Avoid Accidents Using Deep Learning" in International Journal of Research Publication and Reviews, Vol 3, no 5, pp 2630-2639, May 2022.



Mr. Chirag Desai, Assistant Professors, Mechanical Engineering Department, published research papers entitled - “A Review Article on FDM process parameter in 3D printing for composite materials” in Elsevier Materials Today: Proceeding, <https://doi.org/10.1016/j.matpr.2022.02.385>.





Ms. Megha Patel, & Mr. Ravirajsinh Chauhan, Assistant Professors, Department of Computer Science & Information Technology, published a research paper titled “Artificial Intelligence Based Crop Identification And Crop Production Estimation” in International journal of Research and Analytical Reviews with ISSN 2348-1263, Volume 9, Issue 2, 2022.



Mr. Ravirajsinh Chauhan, Assistant Professor, Department of Computer Science & Information Technology, published a paper titled “Performance Evaluation of the state of the Art (SOTA) in Combating Insecurity through Transfer Learning (A case study of Kano State CCTV)” in International journal of Research and Analytical Reviews, with ISSN 2348-1269, Volume 9, Issue 2, 2022.



## Faculty Achievement



Dr. Rohit Khedkar, Associate Professor, Department of Computer Science & Information Technology,

- Published Indian Patent on PARABOLIC SOLAR COLLECTOR HOT AIR DRYER with application number 202221031301 on June 17, 2022.
- Received Best Faculty Award for demonstrating high standard in effective teaching within Student Environment in 10th ICCET Conference.



Dr. Nikit Deshmukh, Associate Professor, Department of Physics, received research project funding of INR 45000 for one year and extendable for three years for the project “Critical Energy Measurement and Dependence in Heavy-ion fusion” in the area of Nuclear Physics - Nuclear Reactions (Experiment) from UGC-DAE Consortium for Scientific Research under CRS Project Scheme with Registration No. 2021/CRS/59/43/61 & CRS Project No.CRS/2021-22/02/471.





## Faculty Enrichment



Dr. Meera Patel, Assistant Professor, Department of Science & Humanities, completed her Ph.D. in English. Her research includes “A Study of Writing Skills of English as Second Language at Intermediate Level”.



Mr. Jigesh Mehta, Assistant Professor, Chemical Engineering Department,

- Completed an Udeemy session on “Introduction to Environment. Health & Safety Management”.
- Completed masterclass on “Advanced Excel Formulas” conducted by Mr. Jatan Shah, Microsoft Certified Trainer, Founder & CEO, Skill Nation, on June 11 ,2022.



## Faculties Invited as Resource Person



Dr. Swanil Adsul, Assistant Professor, Chemical Engineering Department, was invited as External Examiner for Paper Presentation on Technical Event SHODH-2022 at GIT.



Dr. Deepak Kohli, Assistant Professor, Chemical Engineering Department, delivered an Expert Talk for diploma Chemical Engineering 4th semester students on the Topic "Industrial Dryers" on April 7, 2022, at Tapi Polytechnic College, Surat.



Dr. Aditi Agrawal, Assistant Professor, Chemical Engineering Department, delivered an Expert Talk on “Membrane Technology” on April 28, 2022 at Valia Polytechnic College.





## Faculty Participation

- Dr. Swanil Adsul, Assistant Professor, Chemical Engineering Department, participated in
- One week Short Term Training Program on “Emerging Trends and Modeling in Advanced Functional Materials & Devices” from March 28 to April 1, 2022.
  - 3 days Faculty Development Program on "A Mindful Approach to Holistic Health and Well Being" organized by Sikkim Manipal University during May 17-19, 2022.
  - One Day webinar on “Celebration of the World Ocean Day 2022 – Webinar on Expert Dialogs on the Revitalization: Collective Action for the Ocean” on June 10, 2022.



Ms. Pankty Fruitwala, Assistant Professor, Department of Science & Humanities, participated in 3 days Faculty Development Program on "A Mindful Approach to Holistic Health and Well Being" organized by Sikkim Manipal University during May 17-19, 2022.



## Students' Achievement

Harsh S. Dalsania, 7th Semester Student, Mechanical Engineering, along with Mr. Chirag Desai & Mr. Hardik Majiwala, Assistant Professors, Mechanical Engineering Department, presented a review article on ‘Methods to Enhance the Strength of Adhesive Joints along with Consideration of Composite Material’ in Proceedings of TFMS 2022, National Conference on Thermal, Fluid and Manufacturing Science during April 18-19, 2022.



Siddharth Panchal & Ashutosh Raval, 7th Semester Students, Mechanical Engineering, along with Mr. Amir Patel, Assistant Professor, Mechanical Engineering Department, presented a review article on ‘Application of Additive Manufacturing in Adhesive Bonding’ in Proceedings of TFMS 2022, National Conference on Thermal, Fluid and Manufacturing Science during April 18-19, 2022.



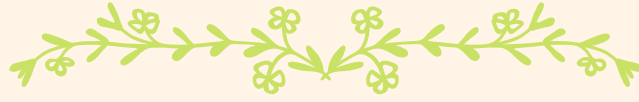




Rishabh Kakdiya, 7th Semester, Computer Engineering student secured runner up position in Marathon organized by School of Nursing, PPSU.



Vineet Munjani, 5th Semester, Machine Learning and Artificial Intelligence Student, created a website titled 'Bottlecap'. It is noteworthy that the student has made the website on mobile phone due to unavailability of Laptop/Desktop. <http://bottlecap.rf.gd/>



## Students' Alley

### મને હું મળતો નથી!

ડરતો નથી ને પગે પડતો પણ નથી,  
એટલું ખરું કે તમને નડતો પણ નથી.  
પછી મારી ચિંતા બધી મૂકી આવું જેમાં,  
એવો કોઈ ખોળો મને જડતો પણ નથી.  
આશા સાથે આકાશમાં જોયા કરું છું પણ,  
ખરા સમયે, એ તારો ખરતો પણ નથી.  
સપનાનું તણખલું છુટયા પછી મારાસ,  
ડૂબી જતો નથી, વળી તરતો પણ નથી.  
રાહ નથી જોતો કોઈ મુસાફરની અને,  
આવતી જતી ટ્રેનમાં એ ચડતો પણ નથી .  
હસતો જો નથી તો એના ઈલાજ ઘણા છે,  
લાઈલાજ તો એ છે જે રડતો પણ નથી.

Jesmin V. Khunt

19SE02IT025

Information Technology





## સંબંધ અને બંધન

જીવનના સફરમાં રાત મહત્વની હોય છે. ત્યારે મનમાં સંઘરેલી યાદોની પળોનો અરીસો જ્યારે સામે રાખીને જોઈએ ત્યારે યાંદ દેખાય એ યાંદ જે ચમકીલો છે, પણ થોડોક દાગદાર પણ! આ ચંદ્રની જેમ ક્યાંકને ક્યાંક સંબંધ આવોજ હોય છે. દરેક વ્યક્તિ જેમ એ યાંદમાં રહેલા દાગને અવગણીને યાંદની પર ધ્યાન આપે છે એમ સંબંધ ની સાથે રહેલા

બંધનોને અવગણતા નથી ને એના લીધે સંબંધોમાં રહેલા એ દાગ બ્લેક હોલ બની જાય છે. કોઈ અમુક ચોક્કસ ઘટનાઓને લીધે એ સંબંધના પ્રેમને ના અવગણી શકાય. જો એ perfect નથી, તો હું પણ perfect નથી. ઘણી વખત મને જે ફાલતુ કે નકમુ લાગે એ એના માટે favourite પણ હોઈ શકે. લીફેમાં તમે ચિત્તાની જળપે આગળ વધવા માંગતા હોવ અને એને કાયબાની ધીમી ગતિએ race જીતવી હોઈ એવું પણ બની શકે. તમે દોડવા માંગતા હોવ ને એને તમારી સાથે ધીમે ચાલવું વધુ પસંદ હોય. આ સંજોગોમાં બંનેના સ્વભાવ અને જુદી સમજણ તમને સાથે ના રેવા દે અને તમારા પરિવાર અને ઉછેર સામે પણ પ્રશ્નાર્થ સર્જાશે! અંતે તમરો સંબંધ સારો હોવા છતાં તમારું ભવિષ્ય સારું જ હશે એની ખાતરી શું?

તમને જે લાઈફ સ્ટાઈલ ગુંગળામણ લાગતી હોય એ એના માટે ખુલી હવાનો શ્વાસ પણ હોઈ શકે છે. મને જે સંબંધ નાના તળાવ જેવો બંધન વાળો લાગે છે એ એના માટે લાખો લાગણીઓનો સાગર પણ હોઈ શકે છે. આ સંબંધમાં રહેલા બંધન ને તમારી relationship પર હાવી ન થવા દેવા માટે માત્ર ને માત્ર તમારી વચ્ચેની understanding મજબૂત હોવાની જરૂર છે. આવા સમયે તેઓને પોતાની વાત સમજવાની જરૂર હોઈ છે જ્યારે તેઓ બીજા લોકોનો સહારો લે છે ત્યારે તે બાહ્ય માણસની વાત તેના સંબંધો પર હાવી થઈ જાય છે. અને આપણે આપણી વાત સ્વીકારવા બીજાને મજબૂર કરીએ છીએ કા'તો એને સંબંધ તોડવા પર મજબૂર કરીએ છીએ. તમારા બે વ્યક્તિના સંબંધ માટે જે જરૂરી છે તે બીજા કોઈ માટે એટલું મહત્વનું નથી હોતું. માટે જેટલી તમારા સંબંધની સમજણ શક્તિ વધુ એટલો તમરો સંબંધ મજબૂત. એકબીજાનો સાથ અને તમારા બંને વચ્ચેની understanding જ તમને સંબંધોના બંધન માંથી મુક્ત કરી શકશે.

Jesmin V. Khunt

19SE02IT025

Information Technology





# “The curse of Gandhari”- By Aditi Banerjee [ Book Review ]



**Dr. Meera Patel,  
Assistant Professor,  
Department of Science & Humanities,  
School of Engineering**

Which characters of Mahabharata have you read-talked-thought about? Who have made impact and impression on your mind?

We all may have similar answers, including characters, such as- Satyawati, Bhishma Pitamah, Panduas, Kunti, Draupadi, Krishna, BalRam, Vidur, Sanjay, Dronacharya, Parshuram – We have read about them-seen them in TV Serial and admired their heroic characters.

What if someone asks you your views about “Gandhari”?  
How will you evaluate character of Gandhar?

What all you know about Gandhari?

To be honest- For me – It would have been flat an answer as I knew too less about her and had negative impression about her character. We all remember Gandhari as Wife of Dhritrashtra who had blindfolded herself as a vow to be loyal-committed wife. Who had 100 sons ( Don’t correct me now! I will sum up fact later!) and Who failed in giving her sons better sanskar and upbringing.

Right?

\*\*\*\*\*

If I had not read this book, I would have never know how great-strong-righteous character Gandhari was!

All the myths and biases I had for Gandhari broke down reading this book. Also I got to know facts about Mahabharata which I was not aware earlier. the small details which are very very important for the Mahabharata saga- have been narrated so well in this book.

The best and strongest merit of this book is- the honesty preserved while narrating center character- Gandhari.

I am really impressed by hard work, understanding and efforts put up by author for being truthful about all events and portraying the character of Gandhari so honestly-sensibly.



I am not going to tell you storyline or lot of events of importance- I want to talk about what I perceived from this book.

The author has written this book narrating the same Mahabharata saga which we have read-heard countless times and yet made it interesting and gripping till the last page. The author here narrates the story of Mahabharata from the Gandhari's perspective which makes it more interesting and different from all other narrations.

The author talks about Gandhari's birth, her family, her strengths, her weaknesses, her strong will power, her commitment, her family traditions, sanskar, perfect upbringing she had, the boon of having 100 sons- how and why she was blessed to-by to explain the emotional and intellectual state Gandhari had.

The Author narrates the story in two parallel timelines- 1) from the memory lane of Gandhari as and when she recalls incidents and rewinds her life story and 2) the post war phase when Gandhari, Dhritrashtra, Kunti along with Sanjay had taken Vanprasthashram to die peacefully.

The author makes sure to elaborate all the events about and around Gandhari- to make us relate with, understand to the emotions Gandhari had. No where in the book Author tries to white wash Gandhari's character or prove that she was right-she was great-she was best. Instead Author narrates character of Gandhari with so much delicacy and truth that we can relate to her easily.

Gandhari was a woman of her words-will-commitment. She was a well raised, well educated, empowered woman of her times. She was well aware of her own strengths and weaknesses. She accepted her fate and tried to mend with- make it as better as possible – as and when she was challenged by tough decision-difficult situation. Why otherwise such a strong, beautiful, powerful woman will marry a blind prince who won't be made kind ever? or why would she bear 100 sons and support them even when they were wrong? or Why would she let her brother Shakuni game around her clan and play the fatal war game? Or Why didn't she take stand when Draupadi was being disrobed in Sabah? Or Why would she curse the Krishna-the god himself?

The author answers all the above questions and many more.

The author also explains humanly emotions like- love, passion, empathy, jealousy, hate, failure, pride, hope, dream, disappointment, rejection – very well. Every event-incident that Gandhari recalls – unfolds many facts and explains special side and emotions of Gandhari. Every dialogue- incident Gandhari goes through – talks about her emotions and justification to all the incidents of her life time.

This book is a must read book for all-kids and elders. This book will teach you not only about Katha of Mahabharata but also about human emotions and lessons- learnings from failures.

There are some facts I got to know only after reading this book- but I won't write them here -Buy the book and find it yourself!







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