



**Ganpat
University**
॥ विद्यया समाजोत्कर्षः ॥



संक्षिप्त

A Ganpat University Research Compendium

Volume 8, 2024
ISBN: 978-81-969483-0-6

www.guni.ac.in



**#StudentsFirst
#CharacterMust**

VISION

“ It shall be the constant endeavour of Ganpat University to meet the education needs of the youth in the areas of professional studies and provide state-of-the art learning opportunities along with inculcation of values of commitment and uprightness ”

MISSION

“ Seek, search and offer programs that lead to symbiotic emergence of ‘academic excellence’ and ‘industrial relevance’ in education and research ”

QUALITY STATEMENT

“ It shall be the constant endeavour of the University to deliver global standards of excellence in all its core and allied operations and remaining accountable for national values and objectives of establishments through process of self-evaluation and continuous improvement. ”



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GUNI Laurels & Recognition

GSIRF
By Education Department
GOVERNMENT OF GUJARAT

2019: 3-Star
2020: 4-Star
2021: 4-Star
2022: 5-Star
2023-24: 5-Star

Gujarat State Institutional Rating Framework
Consistent Progress + Eternal Commitment



nirf Innovation
India Rankings 2023
Ganpat University
Rank-band: 101-150

Ganpat University
4 Stars
Education Ministry's
Institution Innovation
Council (IIC) 5.0
Annual Performance 2022-23

nirf
India Rankings 2024
Pharmacy (Rank-band: 101-125)
India Rankings 2022
Pharmacy (Rank-band: 102-125)
India Rankings 2021
Pharmacy (Rank-band: 76-100)
India Rankings 2020
Pharmacy (Rank-band: 76-100)

Education Department
Government of Gujarat
AWARDED GANPAT UNIVERSITY FOR
**EXCELLENCE IN
PLACEMENT ACTIVITIES**
for betterment of Education, Society and Nation
GRAND EDUCATION FAIR 2018 | 02-05 FEB 2018

Ganpat University
is accredited as
Green University
PLATINUM RANKING
GREEN MENTORS
Awarded by Green University of India
Gujarat State Council of Higher Education (GSCHE)
April 18, 2023

Outlook
INDIA UNIVERSITY RANKINGS
TOP STATE PRIVATE UNIVERSITIES IN INDIA
Ganpat University
15 13 12

ARIA 2021
Best Private University
Band - EXCELLENT

ASSOCIAM
BEST
UNIVERSITY
OF THE YEAR
2021

ASSOCIAM
BEST
UNIVERSITY
OF THE YEAR
2019

ASSOCIAM
BEST
UNIVERSITY
OF THE YEAR
2018

INDIA
TODAY
2019
BEST
UNIVERSITY
OF THE YEAR

INDIA
TODAY
2020
BEST
UNIVERSITY
OF THE YEAR

Notable International Collaborations

LINCOLN UNIVERSITY	Cal Poly Pomona	MICHIGAN STATE UNIVERSITY	GLENDALE COMMUNITY COLLEGE	University of San Diego	FAIRLEIGH DICKINSON UNIVERSITY	TORRENS UNIVERSITY AUSTRALIA
USA					USA CANADA	AUS
HSBI	AIT Asian Institute of Technology	جامعة الفجيرة UNIVERSITY OF FUJAIRAH	جامعة دبي UNIVERSITY OF DUBAI	جامعة ابوظبي Abu Dhabi University		
GERMANY		THAILAND		UAE		

Recognitions & Approvals

University Grants Commission of India	AICTE New Delhi	Pharmacy Council of India	Council of Architecture New Delhi	Indian Nursing Council
Directorate General of Shipping	Ministry of Shipping Government of India	Gujarat State Council For Physiotherapy	For In-House R & D	

Membership

ASSOCIATION OF INDIAN UNIVERSITIES	INTERNATIONAL ASSOCIATION OF UNIVERSITIES
The Association of Commonwealth Universities	

Membership with Industry Associations

SERVICES EXPORT PROMOTION COUNCIL	Confederation of Indian Industry	FICCI	ASSOCIATION OF CHAMBERS OF COMMERCE AND INDUSTRY	gesia	Gujarat Chemical Association
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Shri Ganpatbhai I. Patel

Patron-in-Chief & President

It is with great pride and excitement that I present this year's GUNI Research Compendium, a showcase of the groundbreaking work being carried out across our institutions. At Ganpat University, we understand that research is not just an academic pursuit but a vital societal responsibility. Universities must serve as catalysts for transformation, inspiring new generations of scholars to delve into pressing issues and partner with industries, policymakers, and communities to create meaningful change. By cultivating interdisciplinary collaboration and fostering a culture of curiosity, we aim to equip our researchers with the tools to illuminate pathways to progress.

As we embrace the power of technology, we must not forget that its true potential rests in the hands of its users. At the heart of our success is a deeper commitment and the philosophy of "learn to learn." In today's world, the lifespan of knowledge is rapidly diminishing and the demand for acquiring new skills is ever-growing. Here our ability to adapt, unlearn, and relearn has come in quite handy and has in fact become our greatest strength.

Our researchers are leveraging state-of-the-art technologies to tackle complex problems,

uncover new insights, and expand new frontiers of knowledge. The use of data analytics, artificial intelligence and digital modelling in research and innovation is enabling us to be more inquisitive and ask meaningful questions and find more impactful answers. For our researchers, technology is more than just a tool – it is a catalyst for discovery, innovation, and collaboration in today's dynamic and interconnected world.

As you explore the pages of this compendium, I invite you to reflect on the profound connections between technology, learning, and impact. Together, let us harness technology as a force for good, foster a culture of lifelong learning, and honour the pivotal role of research in shaping a brighter future.

A big 'Thank you' to all the contributors for your hard work, your vision, and your commitment to excellence. Together, we are charting a path to a brighter, and more innovative future.



Dr. Mahendra Sharma

Group Pro Chancellor

At Ganpat University, research is a scholarly and creative endeavour undertaken by faculty members and students, serving as a catalyst for innovation and development within the university. The contributions of research and innovations are instrumental in advancing academic excellence. However, cultivating and sustaining research excellence through initiatives led by faculty and students remains a complex and demanding task in the university ecosystem.

In this era of rapid technological advancements, we are experiencing extraordinary progress in shaping new research frontiers through the integration of technologies like Artificial Intelligence (AI) and machine learning into various disciplines for driving innovation and skill development. Our researchers and scholars have embraced AI's potential to solve complex problems, enhance human productivity, and pave the way for a more sustainable future. Our research efforts are yielding impactful innovations in healthcare, renewable energy, transportation, semiconductor, AI and advanced materials etc. driving meaningful change in society and industry alike.

Empowering individuals with essential skills is at the core of our educational philosophy. Through strategic industry collaborations and tailored

programs, we are ensuring our students and faculty possess the necessary skills required to excel in a fast-paced and rapidly evolving global environment.

This compendium goes beyond recording milestones; it honours the boundless curiosity that defines Ganpat University. It showcases the passion and determination of our faculty, students, and collaborators, who continually expand the horizons of knowledge and innovation. As we move forward, let us reaffirm our commitment to fostering a culture of research excellence, inspiring curiosity, and driving impactful discoveries. I extend my heartfelt congratulations to all contributors and encourage every member of our university to strive for even greater heights. Together, we are shaping a future where knowledge serves as the foundation for a better tomorrow.

Center for Advanced Research Studies (GUNI-CARS)

Center for Advanced Research Studies is a multidisciplinary research centers set up for the promotion of excellence in higher research and for academic cooperation under Ganpat University.

- The Goal of CARS is to pursue and promote world-class research and training at the frontiers of various areas like Engineering, Pharmacy, and Management Studies, Computer Applications, Science, Education and Humanity.
- It is committed to fostering cutting edge research in sciences, pharmaceuticals, biomedical, computer engineering, human resource management, cultural science, etc.

Various Scheme Under the GUNI – CARS

- Financial assistance attending National and International conference/workshop/symposia/seminar and similar events held in India to Faculty & Students
- Financial assistance for attending International conference/workshop/symposia/seminar and similar events held at abroad for Faculty
- Financial assistance for Publication of Research Paper/Book/Book Chapter/Monograph/Patents
- Scheme of grant to organize seminar/symposium/conference/workshop/training program
- Scheme of Minor Research Project (MRP)
- Scheme of Major Research Project (MRP)
- Scheme for Consultancy Work
- Ph.D. Fee Waiver Scheme
- IPR Policy

2024 Research, Consultancy and Publications

No. of Research Papers published/presented in seminar/symposium/conference/Colloquium:

243

No. of Research Papers to be published in Scopus / WOS / UGC indexed Journals

339

No. of Sponsored and Consultancy Research Projects Undertaken

28

Total PhD students Awardees Since 2005

382

Total PhD students Awardees in 2024

22

GUNI Faculty Members with PhD

163

Amount of Sponsored Research Projects Undertaken

INR 6.27 Cr

Amount of Consultancy Projects Undertaken

INR 5.87 Cr

Number of Conferences/ Workshops/ Seminars Organized

113

No. of Ph.D. Programs offered under various disciplines

07

No. of Awards/Recognitions Received for Research/Innovations

100

GUNI Conferences/Seminars/Workshops



16th International Conference on **FUTURE OF WORK**
 Modern Technology | Intelligent Workplace
 Experience & Value Creation | Workforce Transformation
March 01-02, 2024
Conference Research Workshop

Highlights of GCEMP 2k24

Participants 75	Abstract received 82	Full paper received 53	International Papers 07	Contributions from International countries 04
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International Conference on **Revitalising and Rejuvenating Bharatiya Knowledge System for making Bharat Vishwaguru by 2047**

22 23 March, 2024

GUNI SH
 Mar. 02-03, 2024
International Multidisciplinary Conference on Human and Technology Interaction
 March 02 - 03, 2024
Conference and Workshop

www.guni.ac.in

International Conference on **Human and Technology Interactions** on 2nd March 2024 at GUNI - VMPCMS.

Total Participants : 100+



International conference on **Computing Science, Communication, and Security (COMS2)** on 7th February 2024 organized by Ganpat University.

Total Participants : 100+



Artificial Intelligence Symposium 2024

Monday, October 21, 2024

Theme: **Unlocking the Frontiers of Artificial Intelligence and Stepping towards a Sustainable Future**



Pivotal Additive Manufacturing Symposium at the Skill India Conclave 2024 in Panaji, Goa was organized by Ganpat University on October 18, 2024.



Ganpat University Mahatma Urban Institute of Sciences

Celebrating National Science Day

GUNI SciTech Fest-2024

Theme: "Indigenous Technologies for Viable Bharat"

28th February 2024 | 09:00 AM to 04:00 PM

Venue: B.S. Building, Mahatma Urban Institute of Sciences, GUNI

Competitions

- Group: Individual Competitions
- Working Model: Non-Working model (Digital and analogical components and devices)
- Individual Competitions: Science Project, Paper Presentation, Quiz Contest

Eligibility: School Students (10th to 12th Standard), College Students (UG & PG), All India Institute of Technology (AIIT) & IITs

For more information, please visit us @ www.muni.gunpat.ac.in

Coordinators: Mr. Hemant Khosla (8181006657) | Dr. Harsh Yada (799824200)

Participants **400+**

SciTech Fest was celebrated on February 28, 2024.



Research Conclave 2024

26 - 27 September 2024

Key Highlights

565 Projects across all disciplines	508+ UG/PG/Diploma Research projects	60+ External Projects	1400+ Participants
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Smart India Hackathon 2024 was hosted by Ganpat University on September 14, 2024 in collaboration with the Ministry of Education - INDIA, All India Council for Technical Education- AICTE, and MoE's Innovation Cell.

Total
Participants
366



Faculty of Engineering & Technology



Internal Quality Assurance Cell



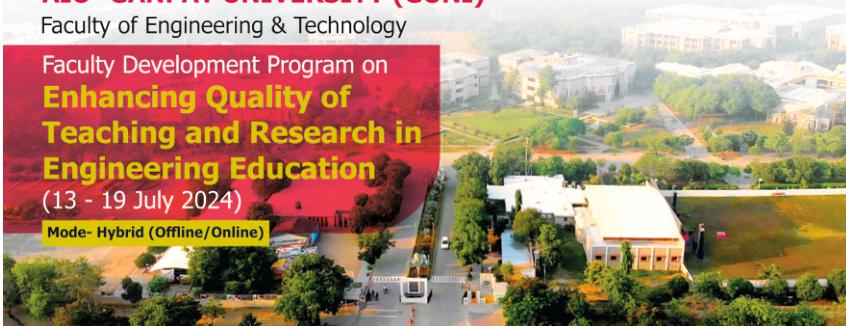
AIU- GANPAT UNIVERSITY (GUNI)

Faculty of Engineering & Technology

Faculty Development Program on **Enhancing Quality of Teaching and Research in Engineering Education**

(13 - 19 July 2024)

Mode- Hybrid (Offline/Online)



Workshop on **Faculty Development Program (FDP)** held by Faculty of Engineering & Technology on July 13-19, 2024



One day Workshop on **National Education Policy 2020: Implementation at Education Institutions** on January 29, 2024
Organized by Ganpat University.

Total Participants : 250+



Workshop on **Research Project Proposal Writing and Institutional Funding Schemes** held on November 23, 2024.



Total Participants : 79+



Ganpat University recently hosted a lecture series titled **Pathways to Progress: Implementing NEP 2020 in Higher Education**. On July 24, 2024
 Organized By: Internal Quality Assurances Cell



Short-Term Training Program (STTP) on **Empowering Faculty in Research & Innovation** on March 19-23, 2024,
 Organized By: (AIU-GUNI AADC) **Total Participants : 190+**
 with the GUNI - CARS



AICTE-sponsored FDP on Semiconductor Manufacturing Process & ATMP was organized by Ganpat University on November 11-16, 2024.



International Case Writing Workshop (GUNI - ICWW 2024)
 organized by Ganpat University - GUNI on October 23-26, 2024 in collaboration with GUNI Education Services - FZ LLC and with the support of Abu Dhabi University (ADU) - Dubai Campus.



National Seminar on IPR & Patent Filing in India



Expert person:
Dr. M. M. Betkar
Principal, Shri Kumarswami Mahavidyalaya,
Avas, Latur, Maharashtra

National Seminar on
Intellectual Property Rights (IPR) and Patent Filing in India
February 22, 2024.
Organized by
A.M. Patel Institute Computer Studies

Total
Participants
298



Workshop on Entrepreneurship Skill, Attitude, and Behaviour Development



Esteemed speaker:
Mr. Rajiv Joshi
Educator | Learning Facilitator | Entrepreneurship Expert

Workshop on
Entrepreneurship Skills, Attitude,
and Behaviour Development,
On February 23, 2024,
Organized by: Ganpat University's
Centre for Management Studies and Research.

Total
Participants
50



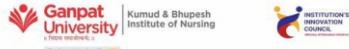
Online Workshop on Analyzing Quantitative Data Using SPSS



10-12 April 2024
04:00 PM to 06:00 PM (IST)
Esteemed Speaker
Dr. Sangram Kishor Patel
Deputy Director
Population Council Institute, New Delhi

Online Workshop On
Analyzing Quantitative Data Using SPSS
On April 10-12, 2024,
Organized by,
GUNI FSSH and GUNI - CARS

Total
Participants
100+



One-day National Seminar on Opportunities for Innovations & IPR in Healthcare sector



Resource Person
Dr. Ajay Kumar Gupta
Director - Research & Development
Ganpat University
Mehsana-Gozaria Highway,
North Gujarat, INDIA.

Resource Person
M. Senthil
Professor and B.Ed. Educator, Public Health Dentistry,
India Gandhi Institute of Dental Sciences,
Deputy Director, SBV Innovator Ecosystem,
SBV - MPTech (Mission for
Intellectual Property and Invention) (Thiruvallur),
Patent, Innovation Cell,
Institute Intellectual Council Project Coordinator
for SBV - MGV Bio-Incubator & SBV ED Cell,
Honorary Secretary for Health and
Institutional Research, Kerala, India.

One-Day National Seminar on
Opportunities for Innovations & IPR
in the Healthcare Sector
February 24, 2024.
Organized by Ganpat University's
Kumud & Bhupesh Institute of Nursing.

Total
Participants
78



National Seminar on Blockchain Exploration: Unleashing Creativity and Innovations



Expert person:
Mr. Chetan Sheth
Co-Founder & Director
QuantumBot Pvt. Ltd.

National Seminar on
Unleashing Creativity and Innovations
in Blockchain Exploration.
On February 26, 2024
Organized by, Ganpat University-
Department of Computer Science

Total
Participants
150+



Sophisticated Instruments in Practice: Hands-On Training and Workshop
April 29-30, 2024,
Organized By:
Ganpat University -
Mehsana Urban
Institute of Sciences

GUNI Collaboration & MoU



Ganpat University has signed MoU with Cybage Khushboo Charitable Trust, June 3, 2024.



Ganpat University has signed MoU with The Institute of Chartered accountants of India During Global Education Summit on Commerce and accountancy Education, July 5-6, 2024



Ganpat University has signed MoU with Kaynes Semicon and Perspective Solutions to advance semiconductor technology education, July 19, 2024





Ganpat University has signed MoU with The University of San Diego, California, USA on July 31, 2024.



Ganpat University has signed MoU with SICSI and AAK india to establish "AAK-FICSI-GUNI Centre of Excellence for Choco-Bakery." August 13, 2024.



Ganpat University has signed MoU with The University of Fujairah, UAE, October 21-23, 2024.



Ganpat University has signed MOU with Torrens University, Australia to foster collaboration in the fields of higher education, training, and student pathway programs on September 17, 2024.

GUNI Lectures



Orientation Program for **Doctor of Philosophy (Ph.D.)** on 30th March 2024, Organized By Ganpat University



Distinguished Lecture on **"Upanishads within the Framework of Indian Knowledge Tradition"** On, March 19, 2024. Organized By: Ganpat University & Center for Bharatiya Knowledge System & Ancient Wisdom **Total Participants : 150+**



Distinguished Lecture on **"Indian Space Program- The Pride of Nation"** On World Heritage Day, Organized by Ganpat University on April 18, 2024.



Ganpat University successfully organized a transformative PhD Orientation Program on January 27, 2024. The event was graced by eminent personalities, Dr. Urjit Yajnik and Dr. Pallab Bhattacharya, who delivered insightful keynote addresses.

GUNI Student Projects



GUNI Summer Student Research Internship Programme 2024 was organized by Ganpat University and Center for Advanced Research Studies on September 26-27, 2024.

Total Projects : **20**



GUNI Winter Student Research Internship Program 2024 was organized by Ganpat University and Center for Advanced Research Studies on April 26-27, 2024.

Total Projects : **35**

Projects Summary

43
Project in
SSRIP

35
Project in
WSRIP

₹11+Lacs
Total
Stipend Given

08
Article published /
Submitted /
Under Preparation

15+
Conference /
Seminar Participated

20+
Project
Student Startup
and Innovation Policy
(SSIP) Funding

GUNI Key Visitors



Ganpat University was honoured to host Shri Kailash Choudhary, the Minister of State for Agriculture and Farmers Welfare, Government of India on February 27, 2024.



Ganpat University launched advanced Food Technology programs on June 18, 2024, with the support of Smt. Nimuben Bambhania, Minister of State for Consumer Affairs, Food and Public Distribution. The initiative aims to enhance food quality, safety, and sustainability.



Dr. Gordhan Patel, Founder & President of JP Laboratories, Inc., visited Ganpat University on September 6-7, 2024 and shared his groundbreaking innovations in food preservation, radiation monitoring, and technology for perishable industries.



GUNI Faculty Achievements



Dr. Swati Patel (FCA), a faculty member at Ganpat University, has been honoured with the prestigious Best Thesis Award from the Indian Society of Agricultural Science & Technology for Rural Empowerment, Raichur, Karnataka on May 7, 2024.



Dr. Priti H. Patel

Principal Investigator
 Assistant Professor & Head
 Department of Biotechnology, Faculty of Science,
 Mahatma Jyotiba Phule Institute of Science, Ganpat University



Dr. Sucheta Karande

Co-Principal Investigator
 Assistant Professor & Head
 Department of Botany, Faculty of Science,
 Mahatma Jyotiba Phule Institute of Science, Ganpat University



Dr. Jasmeo Patel

Co-Principal Investigator
 Assistant Professor
 Plant Pathology, Faculty of Agriculture,
 Mahatma Jyotiba Phule Institute of Science, Ganpat University

Ganpat University's Faculty of Science & Agriculture has received a significant research grant of ₹28,92,000 from the CSIR under the Research Grants for Women Scientists (CSIR-ASPIRE) scheme. The project, led by Dr. Priti H. Patel, aims to develop a sustainable biocontrol solution for Alternaria leaf spot disease in cotton.



Name of Awardee
Dr. Suraj Shah
 Assistant, Professor, GUNI – CMSR

Name of Award
Outstanding Research Paper Award

AIMS International Distinguished Service Award for Contribution in the field of Management

Name of Conference
21st AIMS International Conference on Management
 March 03, 2024

Organized By
 Symbiosis University of Applied Sciences and AIMS International, Houston, USA

GUNI Student Achievements

Prize Money of
Rs. 7,50,000/-

Winner Level I to III for
Two Wheeled Self Balancing Robot
in the India's biggest Robotics Competition,
ROBOFEST - GUJARAT 3.0
organised by GUJCOST, DST, Govt. of Gujarat.

Rs.50,000/- Level-I (Ideation)	Rs.2,00,000/- Level-II (Proof of Concept)	Rs.5,00,000/- Level-III (Prototype)
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Awarded Prize Money of Rs. 7,50,000/- for securing a third position for their project, Two Wheeled Self Balancing Robot in Level III (Prototype) in India's biggest Robotics Competition, ROBOFEST- GUJARAT 3.0 Competition organised by (GUJCOST), Gandhinagar.

Students of Mechatronics Engineering.

Prize Money of
Rs. 9,00,000/-

Winner Level I to III for
Smart Library Assistant Robot
in the India's biggest Robotics Competition,
ROBOFEST - GUJARAT 3.0
organised by GUJCOST, DST, Govt. of Gujarat.

Rs.50,000/- Level-I (Ideation)	Rs.1,00,000/- Level-II (Proof of Concept)	Rs.7,50,000/- Level-III (Prototype)
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Awarded Prize Money of Rs. 9,00,000/- for securing a second position for their project Smart Library Assistant Robot" in "Other Category in Level III (Prototype) in India's biggest Robotics Competition, ROBOFEST- GUJARAT 3.0 Competition organised by (GUJCOST), Gandhinagar.

Students of Mechatronics Engineering



Team AQUABOT, a student of U.V. Patel College of Engineering, Ganpat University, participated in SAUVC (Singapore Underwater Vehicle Competition) on April 8, 2024 and secured a position among the top 30 teams worldwide out of 100+ participating teams.





Ganpat University Students Shine at **Shodh Shikhar 2024 Bhopal, May 3-4, 2024** - A team of over 30 students and 3 faculty members from Ganpat University participated in the International Research and Innovation Conference Shodh Shikhar 2024. The University's strong performance resulted in a commendable haul of 8 prizes.

Shodh Shikhar 2024

First Prize (Government)

Agriculture & Allied Science

Project Title: Nature's defense signal: molecular formulation related with natural ingredients to fight against fungal diseases

Supervisor Name: Dr. Kunal Datta
Institute: GUN - IAS

Prize Amount: **10,000/-**

Shodh Shikhar 2024

Second Prize (Government)

Contemporary Science & Technology

Project Title: Sign Language Recognition

Supervisor Name: Dr. Ansh Bahar
Institute: GUN - DCS, ICA

Prize Amount: **5000/-**

Shodh Shikhar 2024

Second Prize (Government)

Innovation & Technology

Project Title: Gun Drone

Supervisor Name: Dr. Ansh Bahar
Institute: GUN - IAS

Prize Amount: **5000/-**

Shodh Shikhar 2024

Third Prize (Government)

Health Science

Project Title: Enhancing Hospital Logistics: Implementation of Autonomous Robots for efficient and data-driven supply of medicines

Supervisor Name: Dr. Sunil Datta
Institute: GUN - DCS

Prize Amount: **5000/-**

Shodh Shikhar 2024

First Prize (Government)

Innovation & Technology

Project Title: A Computer-Free Machine Learning Based for Covid-19 Risk Rating YOLOv8

Supervisor Name: Dr. Meghna Puri
Institute: GUN - DCS, ICA

Prize Amount: **10,000/-**

Shodh Shikhar 2024

First Prize (Government)

Agriculture & Allied Science

Project Title: Agritech Digital Dashboard (ADSD) - An innovation to make farmer friendly (National Commission for Women)

Supervisor Name: Dr. Ansh Bahar
Institute: GUN - IAS

Prize Amount: **10,000/-**

Shodh Shikhar 2024

Third Prize (Government)

Contemporary Science & Technology

Project Title: Deep Learning Based Covid Detector via Health Camera Based Identification System

Supervisor Name: Dr. Ansh Bahar
Institute: GUN - DCS, ICA

Prize Amount: **5000/-**

Shodh Shikhar 2024

First Prize (Government)

Economic Growth

Project Title: Empowering Rural Gujarat: Assessing the Impact of Smart Farming on Digital Inclusion in Agriculture (NABARD)

Supervisor Name: Dr. Ansh Bahar
Institute: GUN - IAS

Prize Amount: **10,000/-**



Best Proposed Solution (1st) in Ideathon 2024 - Emerging Technologies for Sustainable Development Organized by ACM-W Student Chapters and ACM Ahmedabad Professional Chapter, hosted by Adani University and L.D. College of Engineering on October 19, 2024.



It was an ACM-W Regional Celebration 2024 on Emerging Technologies For Sustainable Development Jointly Organized by ACM-W Student Chapters, LD College of Engineering, Adani University and ACM Ahmedabad Professional Chapter on October 18, 2024.



1st Prize for best poster award **“The Future of AI in Ayurveda: Modern Applications in Diagnosis and Herbal Medicine”** in International Conference on Revitalizing and Rejuvenating Bharatiya Knowledge System for making Bharat Vishva Guru by 2047 organized by Ganpat University during March 22-23, 2024.

GUNI Journals and Books Published



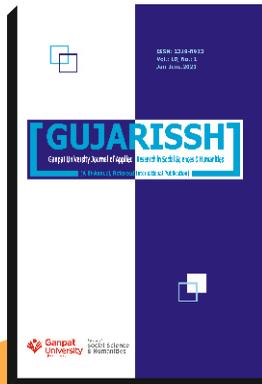
Ganpat University Journal of Management and Research (GFJMR)



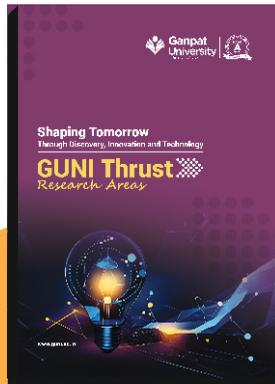
University Journal of Research (UJR)



University Journal of Research: Engineering & Technology (UJRET)



Ganpat University Journal of Research in Social Sciences & Humanities (GUJARISSH)



Ganpat University Thrust Research Areas Booklet



Souvenir GUNI-SSRIP 2023



Souvenir GUNI-SSRIP 2024

GUNI

Ongoing Sponsored Research Projects / Grants



जैवप्रौद्योगिकी विभाग
DEPARTMENT OF
BIOTECHNOLOGY



Ministry of Housing and Urban Affairs
Government of India

INR 21,30,000/- (3 Yrs.)

Title: Student Training on Microbiology Quality Control

PI: Dr. Priti Patel (FOS)

Research Area: Biotechnology

INR 4,00,000/- (2 projects)

Title: Two projects sanctioned – Rani-ki-Vav, Sahasralinga Talav

PI: Sandeepsingh Sisodia

Research Area: Conservation | Rejuvenation



INR 9,50,000/- (2 Projects)

Title: Higher Education Institutional Social Responsibility: An Evaluation of Practices for Rural Community Engagement in the State of Gujarat

PI: Dr. M. S. Sharma; Dr. S. Chaturvedi

Research Area: Entrepreneurship | CSR/ Edu.



INR 28,95,200/- (3 Yrs.)

Title: Nanomaterials for pretreatment of Seawater and industrial waste-water to enhance the reverse osmosis (RO) system's recovery

PI: Dr. Ajay Gupta (GUNI)

Research Area: Water Treatment / Nanotech.



Erasmus+

Eur 61,692/- (3 Yrs.)

Title: Fostering Inclusive and Equitable Quality Education to Stimulate Lifelong Sustainable Learning Opportunity for HEIs in India (InEq-SL)

Faculty: FADP+ FMS+ FOET

Research Area: Education / Management



INR 20,50,000/- (3 Yrs.)

Title: Spatio-temporal investigation of ice sheet mass balance from Space Applications Centre at ISRO

PI: Dr. Kunvar Yadav (FoS)

Research Area: Space Science / Physics



INR 28,92,000/- (3 Yrs)

Title: Aim to develop a sustainable biocontrol solution for Alternaria leaf spot disease in cotton.

PI: Dr. Priti H. Patel

Research Area: Faculty of Science & Agriculture



INR 9,77,500 /- (3 Yrs)

Title: Secure & Precise Positioning Algorithm For Differential Navic Using Blockchain

PI: Dr. Rakesh Vanzara

Research Area: NavIC GAGAN Utilization Programme at Space Applications Centre, Ahmedabad



Climate Change
Department
Government of Gujarat

सत्यमेव जयते

INR 15,00,000/-

Title : Development of Carbon Sink through Urban Afforestation to Realize 'Panchamrit Vision' of Government of India on Climate Conundrum in Gujarat State (2023)

PI: Dr Nirav Halvadia

Research area: Management

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DEVELOPMENT OF EFFECTIVE PRIVACY PRESERVING DATA STREAM MINING TECHNIQUE

Ph.D. Scholar : Patel Aniket Rajendrakumar
Research Supervisor : Dr. Kiran R. Amin



Regi. No.: 15146051005

Abstract :

In today's technology-driven world, online services are extensively used across various domains like social networks, shopping websites, medical services, banking transactions, and more. These services generate large amounts of data, which are then analyzed using data mining techniques. Data mining involves extracting valuable information from massive datasets using methods from machine learning, statistics, and database management. It goes beyond just examining data; it discovers unexpected connections and summarizes data creatively for meaningful insights. The results obtained from data mining are referred to as models or patterns, which can include rules, graphs, clusters, tree structures, and recurring patterns.

As data continues to grow due to advancements in data acquisition and storage technologies, data streams have emerged as a significant challenge. Data streams refer to continuous and dynamic flows of data, like satellite remote sensing systems generating constant data. Mining patterns and models from such streams is termed data stream mining. This poses challenges due to the rapid changes and variability in streaming data. Data stream mining is applied in various fields like mining, storage, querying, and computation.

Key challenges in data stream mining include developing quick algorithms for streaming data, identifying rapidly changing patterns, and managing data due to constraints in time and space. Traditional data mining methods are static and rely on complete data availability beforehand. With the shift towards data streams, research has transitioned to data stream mining due to their unique characteristics.

The main issues in data stream mining involve the need for fast mining algorithms for continuously evolving data, handling fast-changing concepts, and managing the variability of streaming data. Solutions involve the development of new techniques that adapt to streaming data, ensuring privacy while mining, and maintaining accuracy in results.

In response to these challenges, an approach named EPPXGBOOST (Effective Privacy Preserving eXtreme Gradient Boosting) is proposed. This approach combines Adaptive

XGBOOST, which is suitable for data streams, with PPXGBOOST for privacy preservation. Adaptive XGBOOST allows continuous learning from evolving data streams, which is advantageous for scenarios like fraud detection where quick response times are crucial. PPXGBOOST ensures data privacy while mining, which is vital in sensitive applications. This integrated approach aims to strike a balance between accurate results and data privacy, making it effective in handling data stream mining challenges.

Privacy Preserving Random Forest (PPRF) is also proposed in this paper and has achieved remarkable results, with an accuracy rate of 92%. In an era marked by heightened concerns about data privacy and security, PPRF addresses a critical need. By harnessing the capabilities of Privacy-Preserving Random Forests, this approach ensures that sensitive information remains shielded from prying eyes, even in the midst of rigorous data analysis. PPRF accomplishes this feat through the use of cutting-edge cryptographic methods, such as homomorphic encryption and secure multiparty computation.

The profound significance of PPRF extends far beyond its impressive accuracy rate. It opens new horizons for secure and efficient data analysis, particularly in domains where data privacy is paramount. Industries such as healthcare, financial analysis, and government sectors can now harness the power of data stream mining with the confidence that sensitive information remains confidential.

Key words: Data mining, Data stream mining, Privacy preservation, Adaptive XG-BOOST, Streaming data, Data privacy, Machine learning, EPPXGBOOST, PPRF



Regi. No.: 20276341005

METAHEURISTIC APPROACHES BASED TEXT SUMMARIZATION FOR MULTIPLE DOCUMENTS

Ph.D. Scholar : Patel Praveshkumar Somabhai
Research Supervisor : Dr. Paresh M. Solanki

Abstract :

The massive amount of textual information available on the Internet, including news, blogs, websites, and user reviews continues to grow rapidly every day. Consequently, users face significant challenges in finding the specific information they want to find, as it is time-consuming to read and understand all the text they encounter in search results. Moreover, much of the text contains repeated or irrelevant content. Therefore, there is a need for text summarization and shortening text resources has become urgent and much more important.

Multi-document summarization is a more challenging task compared to summarizing a single document. It involves dealing with multiple documents that contain similar and appropriate information on a specific topic or a single document that covers information from various domains. The complexity arises from the presence of conflicting views, biases, and thematic diversity in large document sets. Additional issues include handling redundant information across multiple documents, compressing the content effectively and selecting sentences efficiently for extraction at a reasonable speed and specific amounts of words from multiple documents. These challenges can be addressed by employing metaheuristic techniques in text summarization process which plays important role to maintain control over relevance and coverage and remove redundancy in summary. Therefore, there is a necessity to explore text summarization methods based on metaheuristic approaches, as they can generate high-quality summaries from multiple documents. In the proposed metaheuristic-based text summarization framework for multiple documents, firstly identifying and implemented effective sentence scoring features. Further based on selected sentence features a fitness function is constructed, then firefly, cuckoo, ant colony and Teaching-learning based metaheuristic techniques are applied for generation of precise text summary. Finally, generated summaries are evaluated using ROUGE and BLEU matrices. Experiment results concluded that incorporating metaheuristic techniques in multiple documents text summarization are outperformed compared to existing approaches of multi-document text summarization.

Key words: Text Summarization, Natural language processing, Metaheuristic, Summary Evaluation, Firefly, Cuckoo Search, Teaching Learning, ROUGE, BLEU.



Regi. No.: 18276311003

EXPERIMENTAL INVESTIGATION OF SCHEFFLER REFLECTOR WITH THERMAL STORAGE MEDIA FOR DOMESTIC COOKING APPLICATION

Ph.D. Scholar : Patel Romilkumar Mahendrabhai

Research Supervisor : Prof. (Dr.) Vikramkumar B. Patel

Abstract :

The energy crisis and environmental pollution are serious problems for the world's ecology. The energy requirements are proportionally increasing with an increase in the population. Out of the total primary energy consumption, 36% of the energy is consumed in cooking. In India, most households in rural areas use various energy sources for cooking, such as dung cakes, agricultural residues, fuel wood, charcoal, kerosene, LPG, etc. These energy resources are limited in nature, and their use results in deforestation, land degradation, and environmental pollution. So, there is a need to utilize abundant and eco-friendly energy sources, such as solar energy, for cooking purposes.

Solar energy utilization for thermal applications, like cooking, heating, and drying, was well recognized in tropical and semitropical regions. The different types of solar cookers developed for cooking were (a) concentrator type, (b) box type, and (c) indirect type. Solar cookers were more popular due to their simplicity of handling and operation. The use of a solar cooker is limited because cooking food is impossible due to frequent clouds during the day or evening. In the day or the evening, if solar energy storage is provided in a solar cooker, then there is a possibility of cooking the food during the clouds or in the evening, and the storage would increase the utility and reliability of the solar cookers. Therefore, a thermal energy storage system is required and considered a problem in the present research work. Researchers have worked on sensible and latent heat storage materials, and very few of them used a combination of latent and sensible heat storage materials.

For thermal energy storage in a cooking pot, one of the storage materials was filled in the inner pot and another was filled in the outer pot of the cooking pot. Twenty combinations were prepared from sand, iron pieces, and pebbles (as sensible heat storage materials) and acetamide and stearic acid (as latent heat storage materials) for the experimentation purpose. During selected hours of experiments, the Scheffler unit reflected the rays to heat the cooking pot, which was filled with thermal energy storage materials too. During the evening, the cooking pot transferred heat to an insulator box and loaded it to cook the food (rice) for four members of the family.

In the present research work, design and develop a 2 m² area of Scheffler reflector, demonstrate the investigation of the thermal performance of sensible heat storage material (in pairs) and latent heat storage material (in pairs), and combine heat storage

material (one sensible heat storage material and one latent heat storage material) in a solar cooker based on a Scheffler reflector for late evening or night cooking. Also, carry out thermal analysis, water activity tests, rice taste surveys, and economic analysis of the system. The experimentation was conducted at a specific location in Mehsana (23.5880° N, 72.3693° E) in Gujarat, India.

After the experiment, food has been cooked in experiments with sand-iron pieces, pebbles-sand, sand-pebbles, sand-acetamide, acetamide-sand, acetamide-pebbles, sand-stearic acid, stearic acid-sand, and stearic acid-pebbles.

Out of six pairs of sensible heat storage materials as inner and outer materials, food has been partially cooked in pairs of iron pieces-sand, iron pieces-pebbles, and pebbles-iron pieces. In pairs of latent heat storage materials as inner and outer materials, both the combination pair has been seen as partially cooked food. Combination pair of latent heat storage and sensible heat storage materials cases, food has been partially cooked in cases of pebbles-acetamide, iron pieces-acetamide, acetamide-iron pieces, pebbles-stearic acid, iron pieces-stearic acid, and stearic acid-iron pieces.

The reason for partially cooked food was that the air gap between the gritted particles acted as an insulator for heat transfer. The inner material assists in cooking, while the outer material acts as an insulator and compensates for the heat loss from the inner material.

Experimentally, it shows that food has been cooked when the temperature of the food in the cooking pot is 60 °C or above at 20:00 hr; if it is less than 60 °C, it has been partially cooked.

The water activity test is to be conducted to check the cooking of food quality at Mansinhbhai Institute of Dairy & Food Technology, Dudhsagar Dairy, Mehsana, Gujarat, India. As per the result received of test, the range of cooking and partially cooking is differentiated between 0.928 to 0.937 and 0.948 to 0.957 respectively.

Thermal analysis has been carried out for the present experimentation, and it has been achieved in the range of 30 to 37%. For the calculation of payback period and levelized cost of one meal, economic analysis is carried out. Economic analysis shows the total expenditure, payback period, and levelized cost of one meal of the system were 52350 INR, 10.09 years, and 1.15 INR, respectively. The rice taste survey has been carried out to check the food quality, and as per the feedback received on taste, colour, taste, smell, texture, and overall acceptability, it was satisfactory.

Key words: Scheffler reflector, Solar energy, Solar cooker, Sensible heat storage materials, Phase change materials, Combined heat storage materials, Late evening or night cooking



CORRELATION STUDY OF VITAMIN D STATUS WITH VARIOUS DISEASE CONDITIONS

Ph.D. Scholar : Chaudhary Pruthviraj Karashanbhai
Research Supervisor : Dr. Satish A. Patel

Abstract :

Background: The aim and objectives of this study was to evaluate the Vitamin D status and its association with various disease conditions. Understanding this correlation is essential to gain insights into the prevalence of Vitamin D deficiency in relation to Diabetes, Anaemia, Cholesterol, Thyroid, Testosterone and PSA among the people of this region.

Methods: A retrospective analysis was conducted using data from subjects (>18 years) who underwent laboratory investigation includes the estimation of Vitamin D3 and with it estimation of HbA1c, Iron, Haemoglobin, Lipid parameters, Thyroid parameters, Testosterone, PSA at various study sites across north Gujarat, India. The primary variables studied were the proportions of subjects with different Vitamin D (25(OH)D) total levels, classified as deficiency (<30 ng/ml) or Sufficiency (30-100 ng/ml).

Results: The analysis included data from 1109 subjects with a mean age of 46.97 (± 13.39) years. Among them, 941 (84.9%) had Vitamin D levels below 30 ng/ml, with a slightly higher prevalence in males (85.78%) compared to females (83.81%). The age group with the highest incidence of vitamin D levels below 30 ng/ml was 21 – 40 years (87.17%), followed by > 60 years (86.34%), and 41 – 60 years (82.57%). In Diabetes group, 666 (60.05%) subjects were Diabetic, while 443 (39.95%) were Non-Diabetic. Regarding Iron deficient anaemia group, [290 (26.1%) {M-140(23.97%)} {F-150(28.57%)}] subjects were Iron deficient anaemic, while [819 (73.9%) {M-444(76.03%)} {F-375(71.43%)}] had normal Iron levels. From Anaemic (Hb) subjects group, [255 (22.99%) {M-99(16.95%)} {F-156(29.71%)}] were Anaemic (low Hb), while [854 (77.01%) {M-485(83.05%)} {F-369(70.29%)}] were having normal value of Haemoglobin. Further, in Lipid disorder subject, 623 (56.18%) had abnormal levels, while 486(43.82%) had normal levels. Regarding Thyroid profiles, 1000 (90.2%) subjects had levels within the normal range, while 109 (9.8%) had abnormality. In Testosterone group, 620 (55.9%) subjects had levels within the normal range of Testosterone, while 489 (44.1%) had abnormal Testosterone. At last, Regarding PSA group from 186 subjects; 184 (98.92%) subjects had levels within the normal range, while 02 (1.08%) had abnormal PSA.

Conclusions: Study reveals high prevalence of Vitamin D deficiency among the population

of north Gujarat, India, regardless of age or sex. The findings indicate the link between Vitamin D deficiency and HbA1c, LDL, VLDL and Lipid profile. On the other hand, no association observed with Iron, Hb, TC, HDL, TG, NHDL, Thyroid, Testosterone and PSA. Addressing these identified deficiencies in Vitamin D is imperative and requires appropriate public health interventions.

Key words: Vitamin D deficiency, thyroid, 25(OH)D total, Vitamin D, Prevalence, Testosterone



INVESTIGATION OF ANTICONVULSANT AND ANXIOLYTIC EFFECT OF PASSIFLORA ALATA USING IN-VITRO AND IN-VIVO MODELS

Ph.D. Scholar : Lodhi Rubeeya Nazirullakhan

Research Supervisor : Dr. Nilesh J. Patel

Abstract :

Objective: Epilepsy is a complex neurological disorder, and its management typically requires using prescribed antiepileptic drugs (AEDs) to control seizures effectively. *Passiflora alata*, the winged-stem passionflower has a long history of traditional use in various cultures, including as a sedative, anxiolytic, antispasmodic, and analgesic agent. In recent years, scientific evidence indicating the utility of this plant in the treatment of anxiety and epilepsy prompted us to investigate it for convulsion and anxiety with different experimental screening methods.

Methodology: The dried plant powder was extracted using Soxhlet utilising four different solvents. The preliminary phytochemical screening results provide an initial insight into the types of phytochemicals present in the different parts of the plant, which can be useful in identifying potential bioactive compounds. Estimation of total phenolic, total tannin and total flavonoid was carried out, followed by in-vitro antioxidant activity by DPPH antiradical assay, NO scavenging assay, Hydroxyl radical scavenging assay and Superoxide radical scavenging assay.

TLC studies and HPTLC study performed to support the previous findings and to set up phytochemical profile of plant. Acute oral toxicity study of *Passiflora alata* was carried out according to OECD 423 guideline in rat and two doses were selected 200 and 400 mg/kg to reveal its therapeutics effect.

The present study investigated the protective effect of the methanolic extract of *Passiflora alata* against antianxiety and anti-convulsant activity. Different in vitro & in vivo screening methods like GABA receptor binding assay, AchE inhibition assay, elevated plus maze model, open field test, rota rod test, Maximal electrical shock methods and Pentylene tetrazole induced convulsion screening methods were used to assess the therapeutic potential of plant parts. Estimation of biochemical parameters were checked by determination of super oxide dismutase, catalase and MDA level in rat brain homogenate. Levels of Acetylcholine and dopamine also checked to confirm the pharmacological effects.

Results & Discussion: The outcomes from this investigation suggest that the methanolic extracts of *P. alata* leaves at the dose of 400mg/kg could be efficacious in managing

anxiety and convulsive disorders. The anticonvulsant and antianxiety activity of was related to the presence of Flavonoids and other various potential phytoconstituents like Phenolic compounds, Tannins, Steroids and, Triterpenoids.

Conclusion: We conclude that methanolic extract is more significant than other extract and its anti-convulsant and antianxiety potential could be because of presence of various active phytoconstituents, or synergistic effect of all constituents. However, these findings should be further extrapolated through isolation of each active constituent and with other screening methods prior to its application in clinical cases.

Key words: Passiflora alata, Anti-anxiety and Anticonvulsant effect

Ph.D.
(Pharmacy)



Regi. No.: 18276011003

STUDIES IN VARIOUS FORMULATION APPROACHES FOR DISSOLUTION ENHANCEMENT OF POSACONAZOLE

Ph.D. Scholar : Gurjar Riteshkumar Baldevbhai
Research Supervisor : Dr. Rakesh P. Patel

Abstract :

Discovering new drugs with novel targets is vital for the success of treatment of tuberculosis as antibiotic resistance is increasing among the TB population. Mycobacterium tuberculosis cytochrome P450 CYP121A1 is a promising drug target for the treatment of tuberculosis owing to its essential role in mycobacterium growth. Using a rational approach, that includes molecular docking studies of some substituted pyrazole derivatives a series of pyrazole analogue were designed and pass through computational studies. Compound with good docking score and ADME profile were synthesized using two step reaction and biologically evaluated for their inhibitory activity towards M. tuberculosis. All compounds were analyzed by IR, LCMS, ¹H-NMR and ¹³C-NMR. Among them 5 compounds shows significant activity having MIC (3.12 to 6.25µg/ml). Synthesized compound were re-docked with MmpL3 protein to identify dual inhibitory approach. All synthesized compounds gives good docking score and shows dual inhibition acts on cellular metabolism and cell wall synthesis.

Key words: Mycobacterium tuberculosis, Pyrazole, CYP121A1, Molecular docking, MmpL3

ENHANCEMENT OF LIGHTWEIGHT CRYPTOGRAPHY TECHNIQUE FOR IOT DATA TRANSMISSION

Ph.D. Scholar : Patel Ankitkumar Ratilal

Research Supervisor : Dr. Jigneshkumar A. Chauhan



Regi. No.: 19276211003

Abstract :

Millions of connected devices that can sense compute and exchange data using Internet of Things (IoT). Any physical thing, including a phone, laptop, refrigerator, air conditioner, charger and many more can be a "smart thing." In this increasing era of intelligent objects, IoT is an emerging technology. Wireless connections like RFID, Bluetooth, ZigBee, WSN, WLAN, WMAN, or Wi-Fi can be used to link IoT objects. The Internet of Things (IoT) revolution has been sparked by recent advances in wireless technology, which have caused an exponential increase in the number of connected objects. IoT devices collect, analyse, and transmit massive volumes of data over the network.

IoT facilitates in connecting disparate elements found in heterogeneous environments. IoT devices may be vulnerable to a variety of assaults, including man-in-the-middle and denial-of-service (DoS) attacks, due to their openness and absence of human interaction. Any device can connect to the network that leads to unauthorized access, in addition. In IoT networks, the security of the sent data is a crucial area of concern.

The Internet of Things (IoT) has limited power, bandwidth, and storage. It is necessary to implement an effective security solution that does not consume more IoT's resources. To guarantee the security of transmitted data across the IoT network, numerous encryption techniques have been developed. We analysed the various challenges and security requirements as well as the various lightweight cryptographic algorithms and related attacks.

Therefore, the primary objective of this research work is to maintain the trust of users in the IoT by securing data from unauthorized reading and modification and preserving their privacy. To achieve this, the entire research work is carried out to first, propose a new lightweight cryptography technique to assure security of information with optimal use of resources. Second, compare the proposed lightweight cryptography technique with the existing algorithm in terms of their key size, key distribution mechanism, execution time and memory requirements. Third, validate the proposed lightweight cryptography technique against cryptanalysis attacks and evaluate performance in terms of throughput and avalanche effect.

In the present study, researchers proposed a lightweight cryptography technique (LCT

IoT). The result shows that the LCT IoT technique is efficient compared to the existing lightweight algorithms like Simon and Speck in terms of memory consumption, time consumption, throughput, and the avalanche effect. The LCT IoT is evaluated by performing cryptanalysis by avalanche effect, which is relatively good. This research concludes that LCT IoT works well on differential cryptanalysis and is also secure against various attacks.

Key words: Internet of Things (IoT), Security, Lightweight Cryptography (LWC), Health Monitor, Symmetric, Asymmetric, Cryptanalysis, Block Cipher, Stream cipher. Wireless sensor network.



Regi. No.: 18276211005

FRAMEWORK TO EVALUATE AND IMPROVE EDUCATIONAL PROCESSES IN INDIAN SCHOOLS AND UNIVERSITIES

Ph.D. Scholar : Suthar Falguni Ambalal

Research Supervisor : Dr. Bhavesh R Patel

Abstract :

This research presents a comprehensive framework designed to evaluate and enhance educational processes within India's multifaceted school and university system. Acknowledging the inherent diversity of the system and prioritizing inclusivity, the framework utilizes a multifaceted approach to analyze key educational aspects.

The framework assesses foundational skills, subject knowledge acquisition, and critical thinking abilities, potentially going beyond standardized tests to include alternative assessments that gauge creativity, problem-solving, and communication skills.

This analysis examines classroom practices, teacher qualifications and professional development opportunities, access to technology and learning resources that fosters student engagement and well-being. For universities, institutional effectiveness is evaluated through research output, industry collaborations, and curriculum alignment with current job market demands. Schools are assessed on leadership, governance practices, and community involvement.

Data for this evaluation is meticulously collected through questionnaires administered to various stakeholders. This data is then analyzed using a unique combination of machine learning algorithms, including established models like Random Forest, K-Nearest Neighbors (KNN), XGBoost, Support Vector Machines (SVM), and a newly proposed model, Randoms3vm.

A significant aspect of the framework lies in its rigorous comparison of the novel Randoms3vm model against existing models in the educational domain. This comprehensive analysis sheds light on the strengths and weaknesses of various algorithms, with a particular focus on Randoms3vm's exceptional accuracy, potentially reaching 99% in a specific area. This superior performance positions Randoms3vm as a potential frontrunner for its efficacy and reliability in the educational field.

By analyzing the collected data and pinpointing specific areas for improvement, the framework generates actionable recommendations. These recommendations encompass various aspects, including curriculum development to ensure alignment with national standards and equip students with 21st-century skills, the incorporation of

innovative teaching methods, and the promotion of a holistic learning experience. Teacher training is addressed by highlighting the importance of ongoing professional development programs to enhance teaching skills, effectively integrate technology, and cater to diverse learning needs. Additionally, the framework emphasizes resource optimization, ensuring efficient allocation for infrastructure, technology, learning materials, and student support services. Finally, the framework encourages collaboration and partnerships between schools, universities, and industry, fostering the sharing of best practices, facilitating research, and ultimately enhancing graduate employability.

This framework strives to create a system of continuous improvement within Indian educational institutions. This system would ensure quality education that empowers students for success in a globalized world. Ultimately, by providing actionable recommendations based on data-driven analysis, this framework serves as a roadmap for stakeholders to guide Indian education towards a brighter future.

Key words: Framework, Education, India, Assessment, Skills, Curriculum, Teaching, Learning, Technology, Data analysis, Recommendations, Machine learning algorithms, Random Forest, K-Nearest Neighbors (KNN), XGBoost, Support Vector Machines (SVM), Randoms3vm.



Regi. No.: 18276211004

FRAMEWORK TO EVALUATE AND IMPROVE EDUCATIONAL PROCESSES IN INDIAN SCHOOLS AND UNIVERSITIES

Ph.D. Scholar : Raval Helly Yogeshkumar

Research Supervisor : Dr. Satyen M. Parikh

Abstract :

The evolution of question answering (QA) systems has dramatically reshaped human-computer interaction, with AI-driven conversational agents becoming essential across various domains. From Joseph Weizenbaum's ELIZA in the 1960s, which used early natural language processing (NLP) techniques to simulate basic conversation, to the emergence of advanced models like GPT-2, Mistral and LLaMA, the capabilities of these systems have evolved significantly. Today, conversational agents are not only capable of understanding and responding to complex queries but also exhibit human-like conversational depth.

This research explores the journey of QA systems, from rule-based methodologies to state-of-the-art deep learning techniques. Despite this progress, existing systems still face critical challenges, particularly in managing ambiguous questions, retaining conversational context, and commonsense reasoning tasks. To tackle these issues, this research introduces LLMHarmonized, an innovative self-learning agent that integrates the capabilities of two leading models Mistral and LLAMA2 within a hybrid architecture called the Self-Learning Intelligist Agent. This agent continually improves its performance through interaction and feedback, enhancing its accuracy, contextual understanding, and ability to resolve ambiguity.

The framework's effectiveness is demonstrated through extensive experimentation on benchmark datasets. On the CoQA dataset, LLMHarmonized achieves an outstanding F1 score of 86.7, illustrating its ability to maintain context and deliver precise answers in conversational settings. On the NQ-OPEN dataset, which tests ambiguity resolution in open-domain questions, the system attains an F1 score of 34.9 and Exact Match 45.8, showcasing its ability to handle challenging queries. Moreover, the agent demonstrates strong commonsense reasoning, achieving an accuracy of 61.7% on the CommonsenseQA dataset, highlighting its capacity for understanding and applying everyday logic.

By leveraging a self-learning approach and integrating advanced language models, LLMHarmonized significantly advances the capabilities of modern QA systems. This research not only addresses persistent challenges in context comprehension and

ambiguity handling but also sets the stage for future advancements in conversational AI, driving the development of smarter, more adaptive, and human-like conversational agents.

Key words: Machine Learning, Natural Language Processing, Selflearning Question Answering, Large Language Models, Knowledge Bases, Hugging Face Transformers, Artificial Intelligence



Regi. No.: 19276111014

IMPACT OF UNION BUDGET ANNOUNCEMENT ON NSE SECTORAL INDICES: TESTAMENT FROM INDIA

Ph.D. Scholar : Nirali Rupeshkumar Rathod
Research Supervisor : Dr. Abhishek Parikh

Abstract :

The union budget formally announces future expenditures for the overall economy's growth. It includes government plans for the following year. A quality budget is a guide to the government in making numerous policies, and it also gives investment direction to the investors. The government decides on the budget based on the current circumstances of the economy. It reflects what the economy was and what the future economy will be. In India, the annual and union budgets are one kind of event passed in the parliament house, generally known as "Sansad".

In India, stock market prices are affected due to each macro change in the country and economy. Macro variables include domestic and global factors affecting the stock market. The boom and recession cycle of the economy depends on the rise or fall in the share prices. The stock market reflects the economic condition of the country, which is why it is considered the economic mirror or pulse of the economy. It reveals the actual financial stability and the economy's health.

Stock market indices have been created to show a company's shares' volatility. A stock market index or indices are a way to quantify the relative worth of a collection of stocks. (NSE India). An index is crucial to compare the performance of investments to a pertinent market index.

Stock market returns strike due to economic changes or any political amendment. Therefore, this study measures the impact of Budget announcements on selected sectoral indices. The following indices have been included in the study.

1. Nifty Auto
2. Nifty Bank
3. Nifty FMCG
4. Nifty Financial services
5. Nifty IT
6. Nifty Media

7. Nifty Metal
8. Nifty Oil and Gas
9. Nifty Pharmaceutical
10. Nifty Realty

Analyzing the performance of each selected sectoral index, and how investors can avail the benefit by investing into selected sectoral indices mentioned above during the budget announcement period has been studied.

Structure of thesis:

Chapter 1: In this chapter, an Introduction to the topic and various overviews of the study are presented, as a brief explanation of the Budget, Indian stock exchange, Indices, Sectoral indices, Demonetization, GST, COVID-19, motivation of the study, background of the study, research objectives, scope of this study and lastly, limitation of the study.

Chapter 2: An endeavour has been made to study the earlier analyses, and research works in Stock market returns, Index returns and sectoral indices return. It also examines the impact of various economic variables like- the Union Budget, Demonetization, GST, COVID-19, etc., to identify the statistical tools and models used in different studies for understanding the research gap and other findings of the previous studies.

Chapter 3: With the detailed study of literature review, this chapter presents- Research objective, Conceptual framework, Research Hypothesis and Research methodology including Data collection method, Research design, Sample size, Data analysis, Sectoral indices analysed, Software and duration of the study.

Chapter 4: This chapter provides data analyses of selected sectoral indices with statistical tools and techniques. Interpretations regarding results are also mentioned in this chapter.

Chapter 5: Chapter five seeks to explain the results of statistical tests, rational, and justification. It also provides details on the implications and further scope of the study.

Key words: Union Budget, Stock Market, National Stock Exchange, Sectoral Indices, Investment



IMPACT OF EMPLOYEE EMPOWERMENT ON EMPLOYEE ENGAGEMENT AND RETENTION IN TEACHING FRATERNITY OF MANAGEMENT INSTITUTES ACROSS GUJARAT

Ph.D. Scholar : Panicker Anjali Muralidharan

Research Supervisor : Dr. Harsha Jariwala

Abstract :

This thesis investigates the complex link that exists between Employee Engagement, Empowerment, and Retention at Management Institutes of Gujarat. This study uses descriptive research to conduct a quantitative survey of faculty members in order to shed light on the attitudes, experiences, and results related to Employee Empowerment programs, Employee Engagement & its impact on Retention.

The findings of the study have important implications for both research and practice. Through clarifying the ways in which Employee Empowerment Impacts Employee Engagement and Retention, this study adds to a more profound comprehension of organizational dynamics in higher education. Additionally, by emphasizing the role that Employee Empowerment plays in improving organizational effectiveness, this thesis provides practitioners, policymakers, and administrators with helpful suggestions on how to promote an enrichment and empowerment culture in Management Institutes throughout Gujarat and beyond.

Structure of thesis:

1. First chapter of the study is an overview and introduction of the research topic. In this chapter researcher has included background and need of the research, introduction to the terms "Employee Engagement", "Employee Empowerment" and "Retention". The chapter also discusses the scope and outline of the research.
2. Second chapter of the study provides reviewing of the available literature to identify the research gap. The review of literature includes following aspects 1. Study on Employee Engagement; 2. Study on Employee Empowerment; 3. Study on Retention; 4. Study on relationships between "Employee Engagement", "Employee Empowerment" and "Retention".
3. Third chapter of the study is research methodology. It includes a research gap that discusses why the present study is required to explore, objectives of the study, proposed research model which shows the model under study and hypothesis of the study. Sampling technique, population for the present study, sampling unit, sample size, data collection sources, scope for the present study and data analysis method.

4. Fourth chapter deals with data analysis and interpretation. The chapter starts with the frequency Analysis followed by Data reliability and validity results. The chapter includes the Confirmatory Factor Analysis & Path analysis along with the hypothesis testing.
5. Fifth chapter under study discusses the conclusion of the study. It highlights all the findings as per the objectives of the research. It also includes the future prospects of the current research together with the limitations of the research work presented here.

Key words: Employee Empowerment, Employee Engagement, Retention, Teaching Fraternity, Management Institutes, Gujarat.



Regi. No.: 19276111018

STUDY OF FACTORS IMPACTING EFFECTIVENESS OF MANAGER AS A COACH IN INDIAN ORGANIZATIONS

Ph.D. Scholar : V Venkata Subramanian

Research Supervisor : Dr. Dharmeshdan Gadhavi

Abstract :

Managerial coaching is increasingly becoming important in the present-day dynamic workplace environment. It has been seen to significantly impact employee individual performance and the work unit's performance. With rising business needs, a fast-changing work environment, and growing job performance expectations, more organisations are turning to alternative employee or staff development methods. In this study, the impact of the demonstrated coaching behaviours by the managers, the feedback environment created by the manager, the team member or coachee's orientation towards feedback and the learning culture of the organisation on the performance of individual team members and the working unit of the manager was examined with leader-member exchange (LMX) as the mediator variable.

The present research study was designed to examine how the quality of a manager's relationship with their team members influenced the efficacy of coaching behaviours, feedback environment, feedback orientation of the team member and organisation learning culture on individual and unit performance. The data from responses from a sample of 428 employees working in Indian organisations was analysed using structural equation modelling to test the hypothesis conceptual model. The results supported the proposed model that the manager coaching behaviours, feedback environment, feedback orientation of the team member and organisation learning culture significantly impacted individual and unit performance, mediated by the leader-member exchange.

This research study provides empirical evidence for the impact of coaching behaviours demonstrated by managers, the feedback environment, organisation learning culture and feedback orientation of the team member on the coach-coachee relationship, that is, leader-member exchange as a mediating mechanism, thereby impacting job performance-related outcomes for the individual and the work unit. Implications of the research study findings for theory and practice, along with directions for future research, are discussed.

Key words: Coaching, Managerial coaching, Manager as a coach, Workplace coaching, Performance management, Work performance, Job performance, Individual performance, Unit performance, Organisation learning culture, Feedback Environment, Coachee Feedback Orientation, Leader-Member Exchange Coaching success, Coaching relationships.



A STUDY ON DOWNSIDE RISK MEASURES IN ASSET PRICING MODEL WITH REFERENCE TO EQUITY PORTFOLIO MANAGEMENT

Ph.D. Scholar : Divya Kumari

Research Supervisor : Dr. Abhishek Parikh

Abstract :

Globally, Investment is driven by Expected returns. As these factors are uncertain and future-oriented. Through investments, expected returns include a risk allowance (hicks1939). Risk varies from market to market or security to security. It is to be said that at any point in time, any asset's market price reflects all the information at ease, and based on historical prices, the performance of assets cannot be measured due to behaving randomly. The investor cannot earn abnormal returns through market time or stock selection when the prices are fair. The CAPM (Capital Assets Pricing theory) model by Lintner, the most important theory in modern capital market theory, is based on the above assumption within Markowitz's (1959,1991) mean-variance optimization framework.

However, CAPM and random walk theory are flawed and criticized. Further, various models were developed, such as the Fama French three-factor model, the Carhart four-factor model, the Fama French five-factor model and the six-factor model. After having various models in hand, they are still investors unable to safeguard themselves during a crisis. However, this study has included downside risk premium in the asset pricing model. Various theories have taken place to minimize the risk to investors, but still, investors cannot maintain their wealth in bearish or downfall conditions. Markowitz (1959) suggested semi-variance rather than variance to measure risk to avoid that. However, Chhapra et al. (2019) have depicted that downside beta is a more preferable and significant method for calculating downside risk premium. Recently, the downside risk premium has been a highly debated topic in minimizing risk. The downside risk premium is left-tailed risk, and that will lead to making investors aware while selecting good stocks. Despite the availability of various well-known theories, investors still struggle to protect their investments during a crisis. Hence, this study has a Downside risk based on the proposed four-factor model.

The study identifies and measures the downside risk based on the proposed four-factor model in developed and developing countries. This study has also shown the importance of the downside risk premium and the upside risk premium.

The researcher took Daily observations of 9,85,320, Weekly observations of 2,03,320, and

Monthly observations of 46,920 samples from the US, UK, India and China. The Data was analyzed using the Fama French three-factor model and the proposed downside four-factor model. They compare for accuracy, and the new model helps investors significantly protect themselves during the crisis and create faster wealth during the bull phase of the market.

In summary, how, when and which stocks to be selected for robust portfolio construction is shown and proposed.

Structure of the Thesis:

Chapter 1: Introduction

The first chapter provides a brief background of the study in the form of an introduction. This background provides the objectives of the study. This chapter also introduces the model to be used as a conceptual framework, followed by the scope and significance of the study.

Chapter 2: Literature Review

This chapter reviews the literature regarding various asset pricing models, such as the capital assets pricing model, the Fama French three-factor model, the Carhart four-factor model, the Fama French five-factor model, and the six-factor model. After that,

It attempts to provide a theoretical framework of downside risk and ends with the provision of detailed development of modifications to the model used in this study.

Chapter 3: Research Methodology

This chapter underlines the nature and scope, objective, hypothesis, construct development, measures, instrument used, sampling methodology used and data calculation steps.

Chapter 4: Data analysis and interpretation

This chapter analyzes and interprets the secondary data collected with Yahoo Finance. It uses various relevant statistical techniques and employs appropriate parametric tests.

Chapter 5: Implications, Further Scope and Conclusion

The summary of the results of tested hypotheses is presented in this chapter. The details of the proposed theoretical model for measuring the expected risk premium using the proposed four-factor model. The findings of the study started with testing the Fama French three-factor model, followed by a comparison of the proposed four-factor model. The well-known Chapter discusses the implication of study from the theory development,

which expands the body of knowledge and culminates into providing managerial implications of this research. the study's conclusion is presented, including how the study has expanded the body of knowledge in the assets pricing model. It provides the next level of direction for theory development.

Key words: Downside Risk premium, Assets pricing model, Wealth, upside risk premium



Regi. No.: 17276471001

STUDY OF STRUCTURAL AND MAGNETOELECTRIC PROPERTIES OF SrTiO₃:YFeO₃

Ph.D. Scholar : Patel Nimaben Hitendrakumar

Research Supervisor : Dr. Devang D. Shah

Abstract :

Present work comprises of five chapters, which begins with extensive literature survey on perovskite family and multiferroic materials. In current area, the world is facing the problems related with electricity. To overcome this problem, we need material having a noble density, a giant value of relative permittivity and low loss is required. These materials are good because they are flexible with respect to structural and functional properties.

SrTiO₃, YFeO₃ and BiFeO₃ ceramics were successfully prepared by conventional solid-state reaction method. The binary compounds of xSTyF, xSTO + (1-x)YFO, xSTBF and xSTO + (1-x)BFO with concentration of 0.0, 0.25, 0.50, 0.75 and 1.0 were prepared successfully synthesized by conventional solid-state reaction method.

The X-ray diffraction study shows pure phase perovskite structure without much impurity, which confirms that a complete solid solution is formed. The lattice parameter and crystallite size, amount of strain calculated using Debye-Scherrer formula and W-H plot.

The optical properties obtained from FTIR and UV Visible spectroscopy. FTIR study shows existence of Ti-O, Fe-O and Ti-O + Fe-O bonds presents in prepared composites. The UV visible spectroscopy study shows wide band gap semiconductor materials.

The electrical properties are obtained by Impedance Analyzer. The electrical studies depicts that the compounds exhibit high dielectric constant and low dielectric loss, which makes it functional for designing the Multiferroic devices. Moreover, the conductivity result justifies the NTCR behavior of the compounds. The P-E hysteresis loop indicates the conventional nature of ferroelectric materials somehow leakiness is also a part of its nature. Magnetic studies confirm the paramagnetic characteristic of the compounds.

Key words: Perovskite, ABO₃, Conventional Solid state reaction method, XRD, P-E loop, FTIR, UV Visible spectroscopy, magnetic study.



MATHEMATICAL MODELLING AND ANALYSIS OF ONE DIMENSIONAL GROUNDWATER FLOW PROBLEMS

Ph.D. Scholar : Shah Krisha Dhirenkumar

Research Supervisor : Prof. (Dr.) Amit K. Parikh

Abstract :

Recent research has placed a lot of emphasis on the fluid flow that happens under water. Different physical phenomena of fluid flow arise below the ground Surface and in porous media. When oil and water flowing simultaneously in porous medium in groundwater, some physical phenomena occur. The mathematical formulation of these physical phenomena leads to the non-linear partial differential equations. It is a challenging task to solve nonlinear partial differential equation.

Some standard transformation like similarity transformation is used to transform nonlinear partial differential equation into nonlinear ordinary differential equation but still it is difficult to get its exact solution. Many researchers are working on approximate solution of some nonlinear partial differential equation using different numerical techniques. In present work our attempt is to obtain classical approximate solution of nonlinear partial differential equation of many real-world problems.

The thesis discusses Mathematical models of Groundwater infiltration phenomena, with external input and output, Groundwater recharge with linear and parabolic permeability, Instability Phenomenon in homogenous and heterogeneous porous media and co-current imbibition phenomenon in homogenous and heterogeneous porous media.

We have derived non-linear partial differential equations and we have solved those equations are solved using differential transform method. In instability phenomenon in homogenous and heterogeneous porous media we have studied and solved inclination in small angles and vertical direction as well. In Co-current imbibition phenomenon in homogenous and heterogeneous porous media we have studied and solved inclination in small angles and vertical direction as well. MatLab software has been used to derive graphical solution.

Key words: Groundwater Infiltration Phenomenon, Groundwater Recharge, Inclined Instability phenomenon, Co-current Imbibition Phenomenon, homogeneous porous media, Heterogeneous porous media, Differential Transform method, Oil recovery process, Nonlinear source, Logarithmic source.



CHARACTERIZATION OF CHARGED HETEROGENEITY OF ONCOLOGICAL MONOCLONAL ANTIBODIES USING LIQUID CHROMATOGRAPHY AND ONLINE HIGH-RESOLUTION MASS SPECTROMETRY

Ph.D. Scholar : Bhatt Mithun

Research Supervisor : Dr. Bhushan Kulkarni & Dr. Sandesh Chibber

Abstract :

Post-translational modifications (“PTMs”) in monoclonal antibodies (mAbs) contribute to charge variant distribution, which will affect biological efficacy and safety. For the characterization of mAbs, charge variants are used as a critical quality attribute for product quality, stability consistency and effectiveness. Charge variants in mAbs are characterized by a time-consuming and a multistep process starting from cation/anion exchange chromatography, acidic/basic fractions collection and subsequent reverse phase (RP) liquid chromatography, coupled with mass spectrometry (MS) analysis. Hence, an alternative characterization approach that would be highly selective for ion exchange chromatography-based charge variant analysis, which is compatible with on-line MS detection, is needed in the biopharma industry. Against this backdrop, multiple studies are being conducted to develop a simple straight on-line charge variant analysis method. In this regard, we apply the current study, which aims to develop a charge variant analytical method, based on volatile buffers with low ionic strength that can be used for on-line MS detection of charge variants of mAbs. This would enable the detection on “PTMs” using low ionic strength mobile phase compatible with MS. Hence, fruitful data can be obtained with a single chromatography run without any test sample preparation, eliminating the need for multiple steps of analysis, time-consuming process and multiple sample preparation steps. Thus, Charge Variant Analysis-MS technique will allow the characterization of charge-related PTMs on the intact protein stage. In this regard, this study is about development of a method having combination of chromatography and volatile mobile phase for mass spectrometry detection of mAbs being analyzed in native form. The method is qualified considering pharmacopeia guidelines because the ultimate aim is to transfer this method for Quality Control (QC) release testing of a monoclonal antibody, which is critical for batch release and the regulatory point of view. Acidic and basic variants have been separated with high resolution peak profile.



Regi. No.: 18276181001

PRODUCTION AND OPTIMIZATION OF BIODIESEL BY OLEAGINOUS MICROORGANISMS USING AGROWASTE

Ph.D. Scholar : Chaudhary Roshaniben Kantilal

Research Supervisor : Dr. Priti Patel

Abstract :

Increasing demand and changes in pricing of fossil-derived fuel led researchers to find the productive path to meet the current energy requirement. These objectives can be achieved by using lignocellulosic wastes as a source of food for microbes having the ability to accumulate oil. Microorganisms possessing more than 20% w/w of lipids on dry weight are termed as oleaginous microorganisms. Oleaginous microorganisms are proven useful in the production of biodiesel. Coastal water was screened for the presence of these microorganisms. Potent lipid accumulator has been isolated from the selected sample. After studying morphology, biochemical, and 16s rRNA sequencing analysis, the organism was identified as *Bacillus paralicheniformis* (OQ202112). They can produce polyunsaturated fatty acids (PUFAs) de novo using PUFA synthase/polyketide synthase. The fatty acid profile revealed the presence of oleic and linoleic acids as major components. They produced 3.3 g/L lipids with 5.5 g/L total dry weight. Lipid extraction was carried out by Bligh and Dyer method and oil was transesterified by methanol using NaOH as a catalyst. The yield of fatty acid methyl esters was 86.2%. The fuel obtained met with the standards given by the American Society for Testing and Materials and ASAM. Cetane rating 61 suggests good quality of the biodiesel produced. Thus, the isolated organism possesses potential to be used as a biodiesel producer.

Key words: Agrowaste, Biodiesel, Cetane rating, Oleaginous microorganisms, Polyunsaturated fatty acid, Transesterification.



STUDIES ON ANTI-BREAST CANCER POTENTIAL OF PHYTOCHEMICALS DERIVED FROM SELECTED PLANT SPECIES USING IN VITRO AND IN SILICO APPROACHES

Ph.D. Scholar : Rami Nehalkumar Vinodkumar

Research Supervisor : Dr. Bhushan Kulkarni & Dr. Sandesh Chibber

Abstract :

Breast cancer remains a significant concern globally, with existing treatment options often associated with adverse effects. Consequently, there is a growing interest in exploring alternative treatments derived from natural sources. This study focuses on investigating the potential anti-cancer properties of plant extracts obtained from the leaves of *Aegle marmelos* L. and the leaves and seeds of *Annona squamosa* L. Various solvents, including methanol, hexane, and water, were employed for extraction. Preliminary phytochemical analysis revealed the presence of key phytoconstituents such as phenols, flavonoids, alkaloids, and tannins across all extracts. Additionally, antioxidant activity was assessed, with most extracts demonstrating favorable antioxidant properties. The anti-cancer activity of these extracts was evaluated using the cell viability test (MTT assay) on MCF-7 breast cancer cell lines, yielding promising results in terms of percentage inhibition. Furthermore, identification of phytochemicals was conducted using GC-MS and LC-MS techniques, followed by the molecular docking studies against breast cancer target proteins (PDB ID: 2J5F and 3ERT). Eighteen promising phytochemical candidates were selected based on docking scores and subjected to drug likeness assessment. Three compounds were ultimately chosen for further analysis, including toxicity testing, molecular dynamics simulations, and validation through in vitro assays. Notably, dielsiquinone emerged as a potent compound with the significant potential for breast cancer treatment. This comprehensive investigation underscores the promise of natural compounds as effective and safer alternatives for breast cancer therapy.

Key words: Breast cancer, *Aegle marmelos* L., *Annona squamosa* L., phytochemical analysis, antioxidant activity, anti-cancer activity, molecular docking, drug likeness, toxicity, molecular dynamics simulation.



Regi. No.: 19276461002

PHYSICO-CHEMICAL STUDIES AND POLYMORPHIC STABILITY EVALUATION OF ANTI-HIV PROTEASE INHIBITORS IN FIXED DOSE COMBINATION DRUG PRODUCT USING NOVEL ANALYTICAL METHODS

Ph.D. Scholar : Buch Munishkumar Kiritbhai

Research Supervisor : Dr. Hasit V. Vaghani

Abstract :

The present work represents evaluation of polymorphism for active ingredients and its stability during manufacturing and storage which is critical task for pharmaceutical firms. For solubility and bioavailability enhancement of Ritonavir, hot melt extrusion process was selected through conversion of commercially available crystalline form to amorphous. Powder X-Ray diffraction method (with normal scan and slow scan), Differential scanning calorimetry method and Raman spectroscopy method was considered for polymorphic evaluation in tablet formulation comprising Darunavir 800 mg and Ritonavir 100 mg. The Ritonavir polymorph conversion was estimated quantitatively by validated slow scan X-Ray diffraction method in addition to qualitative evaluation by Differential scanning calorimetry method and Raman spectroscopy method. Further the polymorphic stability of both the active ingredients was verified by accelerated stability study of drug product.

The research work also involves impurity profiling of degradation products related to Darunavir ethanolate, Ritonavir and its possible interaction with excipients during manufacturing process and on storage. The study was designed to develop first base HPLC method for separation of all possible degradation impurities within single chromatogram. The same HPLC method was further transferred to short run time cost effective, LC-MS compatible UPLC method. Through forced degradation study and accelerated stability sample analysis of fixed dose combination drug product, impurity specification was designed as per ICH Q3B (R2). According to manufacturing process and stoichiometric equation observed Hydantoin amino alcohol as major degradation product of Ritonavir and also bi-product generated monitored as unknown impurity. This unknown impurity was identified and qualified through characterization study as Thiazolyl N-methyl Methanamine impurity and considered under impurity profiling. The optimized UPLC method was validated as per ICH Q2 (R2) guidance including forced degradation study to justify as stability indicating. The developed methods were found simple, sensitive, accurate, precise and robust and can be utilized for the routine quantitative analysis of selected drug formulation. Further theoretical risk assessment of drug product was carried out for volatile and inorganic impurities and concluded suitability as per ICH Q3 requirements.

Key words: Polymorphism, Impurity profiling, Impurity Characterization, Method Validation, Stability study.

A DIFFERENTIAL TRANSFORM APPROACH FOR SOLVING REAL LIFE PROBLEMS

Ph.D. Scholar : Sharma Aruna Suryanarayan
Research Supervisor : Dr. Amit Parikh



Regi. No.: 20276491004

Abstract :

Flow in porous media is a fascinating field that bridges theory and practical applications right from groundwater flow to oil recovery process. The research interest in fluid flow through porous media has gained significant attention in the recent years. This research area holds importance in almost all branches of engineering such Reservoir Engineering, Petroleum Engineering, Civil Engineering, Groundwater hydrology, Biomedical engineering etc. The partial differential equations governing the multiphase flow makes mathematics crucial in petroleum engineering. Fluid flowing through porous media has been explained using various mathematical models. Many man- made and natural systems encounter porous media. Because of the deteriorating groundwater quality hydrologists have shown interest in the multiphase flows for groundwater and observed that contaminants can enter water bearing rocks from surface or landfills where chemicals are dumped or illegal waste is disposed. It is crucial to predict how the contaminants flow to find effective solutions. This is an upcoming field in flow through porous media and because of the complex nature, solution is obtained using mathematical techniques. Saltwater intrusion in coastal areas is another concern for environmental engineers. Multiphase flow and transport phenomenon in natural porous media has been observed to occur in oil recovery, Aquifers, biological tissues and plants. Research on multiphase flows focuses mainly on underground petroleum reservoirs

Recently research in the area of in-tissue drug delivery has understood that since porous materials have an enlarged surface area and large pore volumes, they are useful for drug delivery. One dimensional groundwater movement is of great importance for hydrologists, agriculturists and water resource sciences. Various mathematical models have been developed to describe the physical phenomenon occurring due to simultaneous movement of oil and water in porous media. Mathematical formulation of these phenomenon leads to highly non-linear partial differential equations. However, finding exact solution is difficult. Many researchers are working on finding an approximate solution using different numerical techniques

This present study focuses on obtaining an approximate solution to real life problems related to flow in porous media. In the current research work, we investigated the

application of Differential Transform Approaches namely Two Dimensional Differential Transform Method (TDDTM), Reduced Differential Transform Method (RDTM), Hybrid Differential Transform Finite Difference Method (HDTFDM) and multistep HDTFDM to solve real life problems. The real-life problems studied are the Dispersion phenomenon, Groundwater Recharge phenomenon, Infiltration phenomenon, Imbibition phenomenon namely countercurrent, co current, fingering, fingero-imbibition in both homogeneous and heterogeneous porous media with inclination and magnetic field. Using these three Differential transform approaches an approximate solution of the counter-current imbibition phenomenon, co-current imbibition phenomenon, instability phenomenon and fingero-imbibition phenomenon in homogeneous and heterogeneous porous media with inclination and magnetic field effect which occur during the secondary oil recovery is discussed in this thesis. The technique involves calculating the differential coefficients in an iterative manner which reduces the computational work to a great extent but at the same time produces approximate convergent solutions which are in close agreement with existing solutions and are also in total agreement with the physical situation. All three Differential Transform Approaches were applied to two real problems of dispersion and fingero-imbibition phenomenon. The results obtained by all three methods were analysed and compared

Key words: Counter-current imbibition, Co-current imbibition, Instability phenomenon, Finger-Imbibition phenomenon, homogeneous and heterogeneous porous media, Differential Transform Method, Two-Dimensional Differential Transform Method (TDDTM), Reduced Differential Transform Method (RDTM), Hybrid Differential Transform Finite Difference Method (HDTFDM) and multistep HDTFDM.



ISOLATION, PRODUCTION AND OPTIMIZATION OF CELLULASE BY MICROORGANISMS USING AGRICULTURAL WASTE

Ph.D. Scholar : Nikita Rajendrasinh Chavda

Research Supervisor : Dr. Pritiben H. Patel

Abstract :

The development of appropriate procedures for the efficient treatment and utilization of wastes containing cellulose as an inexpensive carbon source has grown to be of substantial economic relevance. Cellulase enzyme, which is known to be produced by microorganisms is responsible for degrading cellulose. Thus, isolation of microorganisms producing cellulase was performed using soil sample and were identified as *Bacillus subtilis*, *Pseudomonas aeruginosa*, *Enterobacter cloacae* using CMC medium. The medium for fermentation was optimized for maximum cellulase to be produced by the potential isolate using statistical approach. Various parameters like the time of incubation, temperature, pH, nitrogen sources, carbon sources, metal ions and NaCl were considered for optimization. The culture condition was optimized and found to be 40°C at pH 7 with maximum activity in the presence of ammonium sulphate and lactose as nitrogen and carbon sources respectively. Amongst these isolates, the maximum cellulase activity was shown by *Enterobacter cloacae* followed by *Pseudomonas aeruginosa* and *Bacillus subtilis* by comparative study. The supplement for the medium was various agricultural waste added as an alternate source of carbon to produce cellulase. The medium with the presence of rice husk (1.76 IU/ml), followed by wheat husk (1.51 IU/ml) and castor seed waste (0.65 IU/ml), had the highest cellulase activity.

Thus, this work aimed to compare the potential of all the above-mentioned isolates to use agro-waste for production of cellulase at optimized parameters. The study's overall findings identified the cellulolytic bacterial group that predominates in various habitat types. Furthermore, the isolate's potential for usage in waste management and enzyme synthesis was suggested by the use of agricultural waste material for the increased cellulase production.

Key words: Agro waste; Bacteria; Cellulase; CMC; optimization; production.



ROLE OF E-SERVICE QUALITY IN CUSTOMER SATISFACTION: A STUDY OF BANKING SECTOR

Ph.D. Scholar : Krupaben Rajubhai Modi

Research Supervisor : Dr. Dharmendra Thaker

Abstract :

Chapter 1: In this chapter, Researcher has described an Introduction to the banking and its history of it, meaning of financial system and evolution and history of financial system, Meaning of E- services, origin of banking world, origin of banking in India, growth and development of Banking, Present Scenario of Banking in India, Technological development in banking, meaning of e-banking, classification of e- banking, various services under e-banking, and significance of e-banking.

Chapter 2: Researcher has study various literature related with E-banking adoption, concept of service quality, E-banking Service Quality and customer satisfaction, E-banking quality and customer satisfaction, Customer experience as a mediator, User-friendliness as moderating variable to develop various research objectives, variables of the study and research hypothesis. Researchers have also identified the research gap for existing literature on e-service quality in Banking to identify the statistical tools and models used in different studies for understanding e-service quality and other findings of the previous studies.

Chapter 3: With the detailed study of literature review, this chapter presents- Research objective, Conceptual framework, Research Hypothesis and Research methodology including Data collection method, Research design, Sample size, Data analysis, Research Instrument, Universe and sampling, sample size, Software used into existing research study and significance and limitations of the study.

Chapter 4: The main objective of this chapter is to analyze the impact of e-banking service quality (eBSQ) on customer satisfaction through user-friendliness with the raw data and convert them into some useful information. The obtained data are classified, tabulated, graphical presentation and the following analyses are made in fulfilling the objectives of the study. Frequency distribution analysis is also termed as percentage analysis is made for each question contained in the questionnaire. Diagrams and charts are mainly used for clear understanding of the collected data in pictorial form. Pie- charts are used for this purpose. The statistical analysis techniques like Reliability and validity analysis, SEM (Structure Equation Modelling), Mediation and various analytical test like Descriptive statistics (frequency, percentage), Reliability Statistics (Cronbach's Alpha), Chi

square, Regression, Using SPSS-25 software and smart PLS- by Researcher.

Chapter 5: This chapter describes and seeks to explain the results of statistical tests, rational, and justification. It also provides details on the theoretical implications, social implications, Public / private bank management implications, stakeholder implications, conclusion and further scope of the study.

Key words: E-banking, service quality, Customer Satisfaction

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Engineering and Technology						
01	22014191001	Adarkhi Kalpana	BME	Patel H.A., Patel Rakesh	Acoustic feature based Alzheimer disease detection using machine learning	Machine learning, healthcare diagnostics
02	22014191002	Bariya Mital	BME	Bhatt Tejas	Quantitative CT lung Analysis A Comprehensive study of Radionic Features for Disease Diagnosis and prognosis	Machine learning
03	22014191003	Damdar Priya	BME	Reddy Tejesh	Early Stage Cancer Detection Through Blood: Using ctDNA As a Biomarkers	Image Processing, ctDNA, Cancer screening
04	22104191004	Patel Mihir	BME	Prajapati T.B., Jarecha Deepa	Treatment of Diabetic Foot Using HOBT	Therapeutic Instrumentation, Oxygen, Therapy
05	22014191005	Gamit Anruta	BME	Patel Himanshu	Analysing kidney stone in ultrasound image using machine learning.	Machine learning
06	22014191007	Raval Nisarg	BME	Patel Heena	Design and development of AI- enhanced bio prosthetic arm.	Artificial intelligence, machine learning, prosthetics
07	20014191004	Mistry Aayushi A.	BME	Patel Raksha	Cardiac Arrythmia Diagnosis by Obstructive Sleep Apnea	Medical Diagnostics, Digital Signal Processing

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Engineering and Technology						
08	22014111004	Kerai Divyakumar Pravinbhai	CIVIL- CEM	Patel Ankitkumar S.	Drones Technology Used In Construction Industry	Digital Construction
09	22014111005	Avadh Bihari Kevat Rajeshkumar	CIVIL- CEM	Solanki Jayraj V.	Comparative Analysis Of Human Vs. Machine Stone Polishing Techniques: A Comprehensive Study On Cost, Productivity, Health, And Risk Management	Risk Management
10	22014111006	Kunnur Sagar Amrut	CIVIL- CEM	Patel Ankitkumar S.	Addressing Workplace Harassment And Discrimination: Strategies For Creating Inclusive Environments In Construction Engineering.	Strategic Management
11	22014111007	Patel Keyur Rakeshbhai	CIVIL- CEM	Solanki Jayraj V.	Risk Management In Residential Projects	Risk Management
12	22014111008	Patel Manan Kumudchandra	CIVIL- CEM	Patel Ankitkumar S.	Impact Of Rera On Real Estate	Real Estate Management
13	22014111011	Santoki Meet Prafulbhai	CIVIL- CEM	Patel Ankitkumar S.	"Impact Of Transition From Super Built-Up Area To Carpet Area Calculation On Real Estate Prices In Gujarat"	Real Estate Management
14	22014111012	Trivedi Arpan	CIVIL- CEM	Solanki Jayraj V.	"Evaluation Of Quality Control In Construction Project "	Quality Management

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Engineering and Technology						
15	22014111013	Vaghela Sonalben Bhanuprasad	CIVIL- CEM	Patel Ankitkumar S.	Optimizing Renewable Energy Integration In Green Building Projects Addressing Barriers And Enhancing Energy Performance	Energy Management
16	22014171001	Meda Govindbhai Harsingbhai	CIVIL - SE	Butala Arjun M., Mehta Nirmal S.	Performance Based Seismic Design For Reinforced Concrete Building	Performance Based Design
17	22014171005	Senghani Harshil Jagdish	CIVIL - SE	Butala Arjun M., Mehta Nirmal S.	Sysmic Behavior On With And Without Bracing Steel Buildin With Nonlinear Static Analysis By Performance Point	Non-Linear Behavior Of Steel Structure
18	22014171006	Shrimali Kishankumar Mansukhbhai	CIVIL - SE	Butala Arjun M., Mehta Nirmal S.	Seismic Effect Of Rcc Building Control By Viscous Damper	Structural Control System
19	22014171010	Vataliya Priteshkumar Nileshbhai	CIVIL - SE	Butala Arjun M., Mehta Nirmal S.	Comparison Of Different Types Of Structural Systems In Tall Building Under Lateral Load	Tall Building
20	22014171011	Hirani Harshkumar Laxman	CIVIL - SE	Butala Arjun M., Mehta Nirmal S.	Different Types Of Staircase Effcted In A Structure Subjected To A Seismic Force	----
21	23014011001	Kalwani Chirag Devanand	CE	Thakkar Manan	Parkinson disease detection using machine learning	Machine learning or Deep Learning

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Engineering and Technology						
22	23014011002	Patel Dhruviben Jasantkumar	CE	Sadani Hiten	Crop and weed classification	Deep learning, Machine learning, AI
23	23014011003	Patel Meetkumar Pradipbhai	CE	Sarvakar Ketan	Data-Driven Disease Prediction: Machine Learning Techniques for Early Diagnosis and Prognosis	Data Science and Machine Learning
24	23014011004	Prajapati Dolly Rameshbhai	CE	Sarvakar Ketan	A Cross-Dataset Comparative Analysis of Boosted Deep Learning Models with Evolutionary Hyperparameter Tuning for Facial Emotion Detection	Machine Learning, Deep Learning, AI
25	23014011005	Sathwara Darshika Dharmesh	CE	Suthar Bhavisha	Sentiment and Emotion Analysis of Customers using Machine Learning	Machine Learning, Deep Learning, Artificial Intelligence
26	23014011006	Shaban Sahnawaz Ibrahimbhai	CE	Patel Venus	-NA-	Machine Learning, Artificial Intelligence
27	23014021001	Shah Aayush Parimalbhai	IT	Shah Prachi	Medical Entity Disambiguation using NLP	Machine learning, Deep learning, AI
28	23014021002	Modi Sruhil Hiteshbhai	IT	Sarvakar Ketan, Devang Pandya	ViLGPT: Bridging Vision and Language for Contextual, Cross-Modal Content Creation	Deep Learning

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Engineering and Technology						
29	22014071001	Desai Utsav Y.	EE	Patel R.A., Patel M. S.	Frequency Stability Analysis of Grid Connected Solar Inverter	Renewable Power
30	22014071002	Khadhera Sanket	EE	Ganatra D. H., Bhavsar M. A.	Comparative Analysis of Different Speed Control Methods of PMSM Motor.	Electric Machines
31	22014071003	Prajapati Mitu R.	EE	Patel V. B., Bhatt N. J.	An Optimal Energy Management of Integrated Hybrid Renewable Energy Sources	Renewable Power
32	22014071004	Rathwa Jayrajbhai P.	EE	Shah K. B., Patel V. B.	Performance Comparison of Different Maximum Power Point Tracking Based Multi String Inverter.	Power Electronics
33	22014071005	Joshi Satyam M.	EE	Bhavsar R.C., Patel R.A.	Health Index of Transformer using AI.	Electric Machine
34	22014071006	Patel Krutik	EE	Desai J. P.	Flexible Power Point Tracking System in Microgrid.	Microgrid
35	22014071007	Sureja Meet	EE	Patel R.A., Patel.N. N.	Net Load Forecasting for Microgrid.	Microgrid

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Engineering and Technology						
36	20014051001	Desai Niravkumar M.	ME- AMS	Patel U.J.	Effect of Process Parameter on Stainless Steel 304H Material in MIG Welding Process	Manufacturing (Welding Process)
37	22014051001	Patel Rajnikant Jayantibhai	ME- AMS	Patel V. D.	Parametric Optimization of Horizontal Centrifugal Casting of Spheroidal Graphite (S.G.) Cast Iron	Manufacturing (Casting Process)
38	22014051002	Solanki Pratik A.	ME- AMS	Soni D. K.	Experimental Analysis for Controlling the position of pneumatic single acting cylinder by interlinking PLC OPC UA and python to implement Fuzzy based PID	Automation
39	22014041003	Patel Sugnesh B.	ME-CAD CAM	Patel C. P.	Investigation of mechanical properties of additive manufactured part using (Rice husk) natural composite feedstock material	3D Printing
40	22014041004	Patel Tirth V.	ME-CAD/ CAM	Chaudhari P. S.	Development and Investigate the CU Particulate Reinforced AA6061 Aluminum Matrix Composites using Friction Stir Processing	Manufacturing (Welding Process)
41	22014041006	Thakor Aman G.	ME-CAD/ CAM	Patel H. C.	Performance & Parametric Analysis of H13 Die Tool Steel Machining using Rotating Workpiece Attachment on EDM	Non-traditional Machining Process
42	22014041008	Vasava Hetal	ME-CAD/ CAM	Trivedi Achyut	Design an expert system for extrusion-based AM technique using PVDF as feedstock material	3D Printing

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Engineering and Technology						
43	22014041009	Patel Rutul N.	ME-CAD/ CAM	Patel B. P.	Evaluation of Stress Concentration Factor for Counter-bore Hole on a Plate under Unidirectional Loading	Design

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Pharmacy						
01	22024611002	Patel Avani Bipinbhai	QA	Patel Satish A.	A comparison of recent registration requirements of generic products for targeted asean countries and sri lankaalong with the preparation of dossier as per actd for molnupiravir capsule 200 MG.	Novel drug delivery system
02	22024611003	Patel Deep Niketankumar	QA	Patel Paresh U.	To identify and compare regulatory and quality challenges for industrial perspective along with preparation of generic product dossier of rivaroxaban tablet 20 mg as per ich M4q.	Novel drug delivery system
03	22024611005	Patel Mosam Bhadreshbhai	QA	Patel Roshani A.	Preparation of generic draft dossier of remdesivir for injection 100mg/vial for south africa maeket along with comparative study of regulatory requirements for nigeria, ghana, kenya & sudan.	Novel drug delivery system
04	22024611006	Patel Ruchi Rakeshkumar	QA	Patel Bhoomi	Development and validation of analytical methods for simultaneous estimation of olopatadine hydrochloride and mometasone furoate in synthetic mixture.	Novel drug delivery system
05	22024611001	Patel Urja Kirtibhai	QA	Patel Satish A.	Development & validation of rp-hplc method for dissolution of domperidone oral suspension and development and validation of analytical methods for simultaneous estimation of sitagliptin and glimepiride in synthetic mixture.	Novel drug delivery system
06	22024611008	Shah Kirtan Vrajeshbhai	QA	Patel Paresh U.	Process validation for calcium chloride injection usp, 10% (10ml) and to prepare generic product dossier for sitagliptin phosphate tablet 50mg as per ich ctd formate (M4Q).	Novel drug delivery system
07	22024671001	Changvadiya Ankitkumar J.	P'ceutics	Patel Geeta K.	Formulation and evaluation of oral spray of dextromethorphan hydrobromide and chlorpheniramine maleate.	Novel drug delivery system

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Pharmacy						
08	22024671002	Kavathiya Swati Hareshkumar	P'ceutics	Patel R. P.	Development and evaluation of microemulsion based cream for the treatment of atopic dermatitis.	Novel drug delivery system
09	22024671003	Kugasiya Anandkumar Pravinbhai	P'ceutics	Thakkar Maulin	Development and characterization of micro emulsion based gel for the treatment of rosacea.	Novel drug delivery system
10	22024671004	Mahadik Mayuresh Uddhav	P'ceutics	Prajapati B. G.	Formulation, evaluation and optimization of antidiabetic bilayer tablet of metformin hcl and dapaglifozin propanediol monohydrate.	Novel drug delivery system
11	22024671005	Oza Jaiminkumar Rohitkumar	P'ceutics	Patel R. P.	Formulation and evaluation of ternary solid dispersion of febuxostat.	Novel drug delivery system
12	22024671006	Patel Darsh Upendrakumar	P'ceutics	Prajapati B. G.	Formulation and evaluation of trihexyphenidyl hydrochloride extended release matrix tablet.	Novel drug delivery system
13	22024671009	Shah Hardi Nehalkumar	P'ceutics	Patel Geeta K.	Development and characterization of microemulsion based gel cream for the treatment of folliculitis.	Analytical method development and validation
14	22024671007	Sharma Riddhi	P'ceutics	Patel Geeta K.	Development and evaluation of caffeine chewing gum.	Analytical method development and validation

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Pharmacy						
15	22024671010	Singhvi Shreya	P'ceutics	Prajapati B. G.	Development and optimization of lyophilization cycle of plasma protein to form its stable formulation.	Analytical method development and validation
16	22024671011	Tanvar Indrajitsinh Jitendrasinh	P'ceutics	Thakkar Maulin	Formulation, evaluation and optimization of fenoprofen calcium extended release matrix tablet.	Analytical method development and validation
17	22024671008	Gomtiwal Sanjaykumar Mohanlal	P'ceutics	Patel R.P.	Formulation and evulation of inculsion complex of tadalafil with hydropropyl- β -cyclodextrin & sulfobutyl- β -cyclodextrin.	Analytical method development and validation

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Computer Applications						
01	22034211124	Pathan Taherankhan Aktarkhan	MCA	Chaubey Nirbhay	Connecting You	Mobile Application
02	22034211044	Barot Soham Hasmukhbhai	MCA	Chaubey Nirbhay	Connecting You	Mobile Application
03	22034211110	Patel Nilkanthkumar Harishbhai	MCA	Chavda Vishnuba	Chealth	Web based Application
04	22034211107	Patel Khushiben Pravinbhai	MCA	Gurjar Aruna	Online Banquet Booking System	Web based Application
05	22034211049	Chandnani Vrutika Chelaram	MCA	Gurjar Aruna	Online Banquet Booking System	Web based Application
06	22034211151	Suthar Heenalben Yogeshbhai	MCA	Joshi Ritesh	Hospital Management System	Web based Application
07	22034211156	Vadhel Dilipkumar Manubhai	MCA	Patel Sanjay	Expense Management System	Web based Application

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Computer Applications						
08	22034211111	Patel Priyakumari Ramubhai	MCA	Patel Roshni	Ispm 15 Certificate Generation	Web based Application
09	22034211158	Vadu Kuntalkumar Vasantbhai	MCA	Umaraniya Vijay	Event Management	Web based Application
10	22034211108	Patel Kritikkumar Maheshbhai	MCA	Umaraniya Vijay	Event Management	Web based Application
11	22034211063	Halpati Dipaliben Pravinbhai	MCA	Patel C. D.	Insurance	Web based Application
12	22034211117	Patel Rimaben Mukeshbhai	MCA	Patel C. D.	Insurance	Web based Application
13	22034211058	Gamit Surbhiben Mansingbhai	MCA	Chaubey Nirbhay	Employee Leave Management System	Web based Application
14	22034211160	Vasava Nilamben Madhavbhai	MCA	Chaubey Nirbhay	Employee Leave Management System	Web based Application

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Computer Applications						
15	22034211101	Padher Hiralkumar Zirmabhai	MCA	Gurjar Aruna	Work On Demand	Web based Application
16	22034211085	Padher Hiralkumar Zirmabhai	MCA	Gurjar Aruna	Work On Demand	Web based Application
17	22034211061	Gayakvad Jayantibhai Ramjibhai	MCA	Gurjar Aruna	Work On Demand	Web based Application
18	22034211089	Parmar Aniketbhai Mavjibhai	MCA	Joshi Ritesh	Carcare Mobile	Mobile Application
19	22034211142	Raval Chiragkumar Prakashbhai	MCA	Joshi Ritesh	Carcare Mobile	Mobile Application
20	22034211080	Manat Prakashbhai Shaileshkumar	MCA	Patel Sanjay	Car Care Admin	Web based Application
21	22034211045	Beldar Biren Baldevbhai	MCA	Patel Sanjay	Car Care Admin	Web based Application

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Computer Applications						
22	22034211059	Ganvit Bhaveshbhai Ishwarbhai	MCA	Patel Roshni	Bachelors Kitchen	Web based Application
23	22034211109	Patel Nainisha Yatinbhai	MCA	Patel Roshni	Bachelors Kitchen	Web based Application
24	22034211073	Mahajan Vanshika Bhaulal	MCA	Umaraniya Vijay	Notenexus (Task Management System)	Mobile Application
25	22034211097	Parsaniya Kesha Ketanbhai	MCA	Umaraniya Vijay	Notenexus (Task Management System)	Mobile Application
26	22034211103	Patel Daxeshkumar Ravinbhai	MCA	Patel C. D.	E-Commerce	Web based Application
27	22034211118	Patel Tarikaben Dashrathbhai	MCA	Patel C. D.	E-Commerce	Web based Application
28	22034211076	Makwana Abhikumar Rajeshkumar	MCA	Chaubey Nirbhay	Student Query Solution Platform	Mobile Application

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Computer Applications						
29	22034211083	Mori Mayur Mukeshbhai	MCA	Chaubey Nirbhay	Student Query Solution Platform	Mobile Application
30	22034211135	Pravasi Jigneshbhai Dineshbhai	MCA	Chavda Vishnuba	Hrms	Web based Application
31	22034211047	Bhoi Rohan Gautamkumar	MCA	Gurjar Aruna	Learn Languages	Mobile Application
32	22034211087	Parasaniya Krina Ketanbhai	MCA	Gurjar Aruna	Learn Languages	Mobile Application
33	22034211120	Patel Vivekkumar Kanubhai	MCA	Joshi Ritesh	Driving School	Web based Application
34	22034211084	Nayka Tejaskumar Vinodbhai	MCA	Joshi Ritesh	Driving School	Web based Application
35	22034211149	Solanki Sohilmahmad Anvarkhan	MCA	Patel Sanjay	Safe Travel Home To School	Mobile Application

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Computer Applications						
36	22034211050	Chaudhari Mehulbhai Chandarbhai	MCA	Patel Roshni	Healthcare	Web based Application
37	22034211056	Gain Ashishkumar Ishvarbhai	MCA	Patel Roshni	Healthcare	Web based Application
38	22034211137	Rathava Vikeshkumar Arvindhbai	MCA	Umaraniya Vijay	Online Job Portal	Testing / SEO / Networking
39	22034211074	Mahakal Vikibhai Arvindhbai	MCA	Umaraniya Vijay	Online Job Portal	Testing / SEO / Networking
40	22034211140	Rathod Krunalkumar Jivabhai	MCA	Patel C. D.	Job Portal	Web based Application
41	21034211093	Chaudhary Suresh	MCA	Chaubey Nirbhay	Internet Service Management Provider	Web based Application
42	22034211157	Vadhel Uttamkumar Tapubhai	MCA	Chavda Vishnuba	Financial Analytical Tool	Web based Application

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Computer Applications						
43	22034211060	Gavit Nitinbhai Ratanbhai	MCA	Gurjar Aruna	E - Learning	Web based Application
44	22034211122	Patel Yashkumar Kuberbhai	MCA	Gurjar Aruna	E - Learning	Web based Application
45	22034211105	Patel Harshkumar Mukeshbhai	MCA	Joshi Ritesh	Doctor Booking App	Web based Application
46	22034211152	Suthar Parth Rakeshbhai	MCA	Joshi Ritesh	Doctor Booking App	Web based Application
47	22034211155	Vadhariya Shubham Manshukhabhai	MCA	Patel Sanjay	Intellisense - Inteligent Monitoring And Analysis Tool	Web based Application
48	22034211104	Patel Dharmikkumar Dipakbhai	MCA	Patel Sanjay	Intellisense - Inteligent Monitoring And Analysis Tool	Web based Application
49	22034211039	Angari Sumaben Shankarbhai	MCA	Patel Roshni	World Doctorate Website (SEO)	Testing / SEO / Networking

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Computer Applications						
50	22034211042	Bandi Anjaliben Lilabhai	MCA	Patel Roshni	World Doctorate Website (SEO)	Testing / SEO / Networking
51	22034211154	Trivedi Yashvi Shaileshbhai	MCA	Umaraniya Vijay	E-Commerce Using Flutter	Mobile Application
52	22034211141	Rathod Priyankaben Kapurbhai	MCA	Patel C. D.	Create A Social Media Strategy For A Website	Testing / SEO / Networking
53	22034211069	Khair Nikitaben Motibhai	MCA	Patel C. D.	Create A Social Media Strategy For A Website	Testing / SEO / Networking
54	22034211095	Parmar Krishi Vijaykumar	MCA	Chaubey Nirbhay	E-Commerce	Web based Application
55	22034211098	Patel Aayushi Bhavikkumar	MCA	Chaubey Nirbhay	E-Commerce	Web based Application
56	22034211067	Kanani Ravibhai Harikrushnbhai	MCA	Chavda Vishnuba	Photography Event Management	Web based Application

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Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Computer Applications						
57	22034211102	Patel Bipasha Jashwantbhai	MCA	Chavda Vishnuba	Photography Event Management	Web based Application
58	22034211166	Pandya Komalben Dineshkumar	MCA	Joshi Ritesh	Learning Management System	Web based Application
59	22034211065	Joshi Jigar Dipakbhai	MCA	Joshi Ritesh	Learning Management System	Web based Application
60	22034211174	Nakrani Vishranti Rajeshbhai	MCA	Patel Sanjay	Institute Test Management System	Web based Application
61	22034211081	Manish Rojasara	MCA	Patel Roshni	Payroll Management System	Web based Application
62	22034211167	Parmar Nayanaben Kantibhai	MCA	Umaraniya Vijay	SEO Audit A Webiste	Testing / SEO / Networking
63	22034211165	Machhar Rahulbhai Chuniyabhai	MCA	Patel C. D.	Skyelon.Seeds	Web based Application

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Computer Applications						
64	22034211173	Taral Kunjalben Amrutbhai	MCA	Chaubey Nirbhay	Create A Landing Page Portfolio For Website	Testing / SEO / Networking
65	22034211172	Taral Kunjalben Amrutbhai	MCA	Chaubey Nirbhay	Create A Landing Page Portfolio For Website	Testing / SEO / Networking
66	22034211064	Jadeja Dushyantsinh Ghanshyamsinh	MCA	Chavda Vishnuba	Cybersecurity Analysis Through Comprehensive Network Monitoring And Testing	Testing / SEO / Networking
67	22034211176	Sadhu Parth Dharmendrakumar	MCA	Gurjar Aruna	Integration Of Large Language Models With Chatgpt Reporting Model	Desktop Application
68	22034211091	Parmar Harshkumar Ashwinbhai	MCA	Joshi Ritesh	Task Management	Desktop Application
69	22034211040	Ansari Mohammadasif Abdulfiroz	MCA	Patel Sanjay	Wrap Up Insurance Management System	Web based Application
70	22034211068	Kapadiya Smitkumar Khodabhai	MCA	Patel Roshni	Online Furniture E-Commerce Websites	Web based Application

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Computer Applications						
71	22034211078	Makwana Jigarkumar Navinbhai	MCA	Patel Roshni	Online Furniture E-Commerce Websites	Web based Application
72	22034211134	Prajapati Viral Manishbhai	MCA	Umaraniya Vijay	Students Helping Students	Mobile Application
73	22034211053	Chauhan Jayeshkumar Ramanbhai	MCA	Patel C. D.	Online Electronic Ecommerce Website	Mobile Application
74	22034211088	Pardeshi Vinay Arjunsinh	MCA	Patel C. D.	Online Electronic Ecommerce Website	Mobile Application
75	22034211086	Panchal Harsh Kanubhai	MCA	Chaubey Nirbhay	Online Restaurant Booking Management	Web based Application
76	22034211143	Raval Vivek Mukeshkumar	MCA	Chaubey Nirbhay	Online Restaurant Booking Management	Web based Application
77	22034211133	Prajapati Vijaykumar Dineshbhai	MCA	Chavda Vishnuba	Online Shopping Website	Web based Application

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Computer Applications						
78	22034211096	Parmar Manojkumar Kantibhai	MCA	Chavda Vishnuba	Online Shopping Website	Web based Application
79	22034211171	Suresh Kumar	MCA	Gurjar Aruna	Online Grocery Store	Web based Application
80	22034211150	Solanki Tejasvi Gautambhai	MCA	Joshi Ritesh	Online Jewellery Shopping	Web based Application
81	22034211066	Joshi Maitrey Jayeshkumar	MCA	Patel Sanjay	Crm (Customer Relationship Management)	Web based Application
82	22034211132	Prajapati Sachinkumar Ramanbhai	MCA	Patel Sanjay	Crm (Customer Relationship Management)	Web based Application
83	22034211130	Prajapati Mohitkumar Rameshbhai	MCA	Patel Roshni	Accounting And Payroll	Web based Application
84	22034211079	Mali Vaishnavi Uttam	MCA	Umaraniya Vijay	Magnus Application	Web based Application

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Computer Applications						
85	22034211123	Pathan Sejan Khan Salavat Khan	MCA	Patel C. D.	Online Cloths Store	Web based Application
86	22034211163	Ganpatlal	MCA	Patel C. D.	Online Cloths Store	Web based Application
87	22034211092	Parmar Jaypal Kanubhai	MCA	Chaubey Nirbhay	Car-Rental	Web based Application
88	22034211127	Prajapati Jimil Janakbhai	MCA	Chavda Vishnuba	Interior Design & Development Hub Of Sd Group	Web based Application
89	22034211112	Patel Priyam Bharatbhai	MCA	Chavda Vishnuba	Interior Design & Development Hub Of Sd Group	Web based Application
90	22034211046	Bhalodiya Niraliben Jitendrabhai	MCA	Gurjar Aruna	Pizza Studio	Web based Application
91	22034211075	Makani Vatsal Ajitbhai	MCA	Joshi Ritesh	Erp Module	Web based Application

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Computer Applications						
92	22034211116	Patel Rajvi Maheshkumar	MCA	Patel Sanjay	Hmo Checker	Web based Application
93	22034211106	Patel Hetkumar Babubhai	MCA	Patel Roshni	Hotel Management System	Web based Application
94	22034211062	Goswami Hemangini Manojgiri	MCA	Umaraniya Vijay	Online Food Industries Website	Web based Application
95	22034211113	Patel Priyanshi Pankajbhai	MCA	Umaraniya Vijay	Online Food Industries Website	Web based Application
96	22034211043	Barad Kajalben Rameshbhai	MCA	Patel C. D.	Trainer Booking	Desktop Application
97	22034211052	Chauhan Archanaben Rameshbhai	MCA	Patel C. D.	Trainer Booking	Desktop Application
98	22034211114	Patel Priyansi Hiteshkumar	MCA	Chaubey Nirbhay	Camline	Web based Application

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Computer Applications						
99	22034211148	Shah Sneha Bhikhabhai	MCA	Chaubey Nirbhay	Camline	Web based Application
100	22034211153	Thakor Ramilaben Babuji	MCA	Chavda Vishnuba	Create A Blog From Scratch	Testing / SEO / Networking
101	22034211125	Pavithradevi G	MCA	Chavda Vishnuba	Create A Blog From Scratch	Testing / SEO / Networking
102	22034211115	Patel Purva Shaileshbhai	MCA	Gurjar Aruna	Business Marketing	Web based Application
103	22034211100	Patel Amibahen Mahendrakumar	MCA	Gurjar Aruna	Business Marketing	Web based Application
104	22034211057	Gamar Lalitbhai Rameshbhai	MCA	Joshi Ritesh	Online Book Store	Web based Application
105	22034211054	Chauhan Pankeshbhai Jayrambhai	MCA	Joshi Ritesh	Online Book Store	Web based Application

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Computer Applications						
106	22034211128	Prajapati Jimisha Jayendrakumar	MCA	Patel Sanjay	Camline	Web based Application
107	22034211131	Prajapati Ronak Narsinhbhai	MCA	Patel Sanjay	Camline	Web based Application
108	22034211136	Rajput Raunak Ravindrasingh	MCA	Patel Roshni	Customer Engagement Portal	Testing / SEO / Networking
109	22034211162	Zala Rohit JilusinH	MCA	Umaraniya Vijay	E-Commerce	Web based Application
110	22034211048	Brahmbhatt Vishwaraj Shaileshkumar	MCA	Patel C. D.	Docsync Pager	Web based Application
111	22034211126	Prajapati Adarsh Jitendrakumar	MCA	Chaubey Nirbhay	Hr Management System	Web based Application
112	22034211121	Patel Yash Nimeshkumar	MCA	Chaubey Nirbhay	Hr Management System	Web based Application

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Computer Applications						
113	22034211055	Dabhi Hiteshbhai Kalabhai	MCA	Chavda Vishnuba	Online Shopping System	Web based Application
114	22034211138	Rathod Dhruveshkumar Babubhai	MCA	Chavda Vishnuba	Online Shopping System	Web based Application
115	22034211161	Vomecha Sumitbhai Shivabhai	MCA	Gurjar Aruna	Questcom Furniture Site	Web based Application
116	22034211168	Parmar Sohilkumar Lilabhai	MCA	Joshi Ritesh	Create A Portfolio Website	Testing / SEO / Networking
117	22034211164	Garasiya Hirabhai Lalabhai	MCA	Patel Sanjay	E-Commerce Website	Web based Application
118	22034211072	Kriplani Aakash Hareshkumar	MCA	Patel Roshni	Data Orchestration	Web based Application
119	22034211144	Rushabh Yagneshkumar Modi	MCA	Umaraniya Vijay	Online Ticket Booking For Theatre	Web based Application

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Computer Applications						
120	22034211093	Parmar Jigarkumar Bhogilal	MCA	Patel C. D.	Project Management System	Web based Application
121	22034211077	Makwana Hardikkumar Dipakbhai	MCA	Patel C. D.	Project Management System	Web based Application
122	22034211090	Parmar Bhaumik Narendrakumar	MCA	Chaubey Nirbhay	Event Management	Web based Application
123	22034211169	Patel Sumitkumar Jashubhai	MCA	Chavda Vishnuba	Interior Design	Testing / SEO / Networking
124	22034211094	Parmar Khilvantkumar Kiritbhai	MCA	Chavda Vishnuba	Interior Design	Web based Application
125	22084341001	Bhagchandani Mohit Sanjaykumar	M.Sc.IT (AI & ML)	Bhatt Pankati	Photos Organization Software System	AI/ML
126	22084341002	Bharade Ritesh Vinodbhai	M.Sc.IT (AI & ML)	Bhatt Pankati	Question generation using Generative AI	AI/ML

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Computer Applications						
127	22084341004	Mistri Raj Jigneshbhai	M.Sc.IT (AI & ML)	Bhatt Pankati	PPE Kit Detection System using YOLO	AI/ML
128	22084341005	Paikray Pushpanjali Sudam	M.Sc.IT (AI & ML)	Bhatt Pankati	Question generation using Generative AI	AI/ML
129	22084341006	Panchal Hetakshiben Prashantkumar	M.Sc.IT (AI & ML)	Bhatt Pankati	Photos Organization Software System	AI/ML
130	22084341007	Thaker Khushiben Bhagirathbhai	M.Sc.IT (AI & ML)	Bhatt Pankati	Integrated Multimodal Activity Recognition Framework	AI/ML
131	22084341008	Trivedi Jaykumar Atulkumar	M.Sc.IT (AI & ML)	Bhatt Pankati	Multimodal Personal AI Assistant	AI/ML
132	22084341009	Mehta Anant Jigneshkumar	M.Sc.IT (AI & ML)	Bhatt Pankati	PPE Kit Detection System using YOLO	AI/ML
133	22084231043	Harshil Prajapati	M.Sc.IT (AI & ML)	Bhavsar Krupa	Project Management System (Pms)	AI/ML

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Computer Applications						
134	22084231034	Solanki Virat N.	M.Sc. (CA & IT)	Modi Kimi	Advance Search Engine Optimization (SEO) For Personal Wordpress Site With Following Search Engine Guidelines Like Google & Bing	SEO
135	22084231020	Patel Hardi	M.Sc. (CA & IT)	Patel Ketan	Expanding Website Search Performance With Advance SEO And Social Media Marketing	SEO
136	22084231001	Darshakkumar Hasmukhbhai Bhavsar	M.Sc. (CA & IT)	Patel Ajay	Face Recognition Attendance System	ML
137	22084231052	Mohit Dilipbhai Dhobi	M.Sc. (CA & IT)	Patel Ajay	Face Recognition Attendance System	ML
138	22084231015	Moinhusen Husenali Musa	M.Sc. (CA & IT)	Patel Kirit	Paylio	Web Application
139	22084231026	Rupapara Bhavik Ramjibhai	M.Sc. (CA & IT)	Patel Kirit	Paylio	Web Application
140	22084231024	Patel Vidhee Manojkumar	M.Sc. (CA & IT)	Patel Ketan	Online Earthmover Booking	Web Application

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Computer Applications						
141	22084231029	Soni Shreya Rohitkumar	M.Sc. (CA & IT)	Patel Ketan	Online Earthmover Booking	Web Application
142	22084231031	Suthar Kunjan K.	M.Sc. (CA & IT)	Bhavsar Krupa	Vigitee - Visit Digitally	Web Application
143	22084231028	Soni Riddhi I.	M.Sc. (CA & IT)	Bhavsar Krupa	HR Management System (HRMS)	Web Application
144	22084231030	Soni Siddhi I.	M.Sc. (CA & IT)	Bhavsar Krupa	HR Management System(HRMS)	Web Application
145	22084231009	Jayswal Smit Bhaveshkumar	M.Sc. (CA & IT)	Patel Hardik	Car Rental System	Web Application
146	22084231046	Sheth Pratyax	M.Sc. (CA & IT)	Patel Hardik	Car Rental System	Web Application
147	22084231050	Modh Chirag Rajeshkumar	M.Sc. (CA & IT)	Patel Ketan	Job Portal Management System	Web Application

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Computer Applications						
148	22084231012	Khamar Krina Rushikumar	M.Sc. (CA & IT)	Patel Ketan	Customer Service Management	Web Application
149	22084231027	Shah Kruti Deepakbhai	M.Sc. (CA & IT)	Patel Ketan	Customer Service Management	Web Application
150	22084231040	Mishra Jayesh Dadan	M.Sc. (CA & IT)	Patel Hardik	Online Multilevel Marketing System	Web Application
151	22084231008	Jayswal Dipanshu	M.Sc. (CA & IT)	Patel Kirit	Campus Placement Recruitment System	Web Application
152	22084231014	Mehta Yukti	M.Sc. (CA & IT)	Patel Kirit	Campus Placement Recruitment System	Web Application
153	22084231036	Chaudhary Akash	M.Sc. (CA & IT)	Patel Ajay	Alpha-Interior Design	Web Application
154	22084231003	Chaudhari Sahil	M.Sc. (CA & IT)	Patel Ajay	Alpha -Interior Design	Web Application

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Computer Applications						
155	22084231005	Chitara Naval Hareshbhai	M.Sc. (CA & IT)	Patel Biren	Wedding Vendors	Web Application
156	22084231016	Panchal Rushi J.	M.Sc. (CA & IT)	Patel Biren	Online Bike Rental System	Web Application
157	22084231023	Patel Smith H.	M.Sc. (CA & IT)	Patel Biren	Online Bike Rental System	Web Application
158	22084231019	Patel Anjali Dipakbhai	M.Sc. (CA & IT)	Bhavsar Krupa	Smart Parking System	Web Application
159	22084231021	Patel Kena Shaileshbhai	M.Sc. (CA & IT)	Modi Kimi	Travel And Tourism Management System	Web Application
160	22084231004	Chauhan Bhargav Sureshbhai	M.Sc. (CA & IT)	Patel Kirit	Testy Bite	Web Application
161	22084231011	Joshi Arya Jayeshbhai	M.Sc. (CA & IT)	Patel Kirit	Testy Bite	Web Application

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Computer Applications						
162	22084231013	MakwanaNikunj	M.Sc. (CA & IT)	Patel Biren	Restaurant Management System	Web Application
163	22084231025	Patwa Aagam	M.Sc. (CA & IT)	Patel Hardik	E-Learning Platform "7 Teen Academy"	Web Application
164	22084231017	Panwar Rachit	M.Sc. (CA & IT)	Patel Hardik	E-Learning Platform "7 Teen Academy"	Web Application
165	22084231037	Dave Srusti	M.Sc. (CA & IT)	Patel Ketan	Tourist Management System	Web Application
166	22084231039	Agarwal Lavina	M.Sc. (CA & IT)	Patel Ketan	Tourist Management System	Web Application
167	22084231033	Trivedi Vishal Rajeshbhai	M.Sc. (CA & IT)	Modi Kimi	Snapface : The Ultimate AI Photo Sharing Platform	Android Application
168	22084231042	Patel Chirag S.	M.Sc. (CA & IT)	Modi Kimi	Snapface : The Ultimate AI Photo Sharing Platform	Android Application

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Computer Applications						
169	22084231032	Thakor Dhavalkumar C.	M.Sc. (CA & IT)	Patel Biren	Growth An Oath To Grow	Web Application
170	22084231022	Patel Ravi M.	M.Sc. (CA & IT)	Patel Biren	Growth An Oath To Grow	Web Application
171	22084231049	Gupta Bhumi	M.Sc. (CA & IT)	Patel Biren	Online-Movie-Booking	Web Application
172	22084231053	Mehta Parth	M.Sc. (CA & IT)	Patel Ajay	Elanceo	Web Application
173	22084231002	Bhetariya Yash	M.Sc. (CA & IT)	Patel Hardik	Sound Stream: A Music Web App	Web Application
174	22084231051	Tiwari Shubham	M.Sc. (CA & IT)	Modi Kimi	Multi Vendor Ecommerce	Android Application
175	22084231010	Jeshadiya Darshil Vishnubhai	M.Sc. (CA & IT)	Bhavsar Krupa	FFTI (Online E-Course Website)	Website

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Computer Applications						
176	22084231018	Patel Grishma Jitendrabhai	M.Sc. (CA & IT)	Patel Ajay	Ams : Asset Management System	Mobile Application
177	22084231048	Chaudhary Meghana Shamalbhai	M.Sc. (CA & IT)	Patel Ajay	Ams : Asset Management System	Mobile Application
178	22084231035	Adhavan Niravkumar Rameshbhai	M.Sc. (CA & IT)	Patel Kirit	Employees Management System	Software
179	22084231047	Ajeet Singh	M.Sc. (CA & IT)	Patel Hardik	Placement Portal	Web Application
180	22084321007	Mehta Divya Rajan	M.Sc. IT (Cyber Security)	Suthar Amit	Fortified Cyber Measures	WebApp Pen-testing, Network Security, Creating a secure network
181	22084321002	Bhanushali Dhaval Vinod Saraswati	M.Sc. IT (Cyber Security)	Suthar Amit	Web & Android Application Penetration Testing	WebApp & Mobile App Pentesting
182	22084321017	Suthar Janaviben Sureshkumar	M.Sc. IT (Cyber Security)	Suthar Amit	Web & Android Application Penetration Testing	WebApp & Mobile App Pentesting

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Computer Applications						
183	22084321005	Ghusani Deep Ajaybhai	M.Sc. IT (Cyber Security)	Suthar Amit	Advance VAPT (Secure Check)	WebApp & Mobile App Pentesting
184	22084321016	Sompura Aanshi Bharatbhai	M.Sc. IT (Cyber Security)	Suthar Amit	VAPT	WebApp Pentesting
185	22084321014	Aleena Biju	M.Sc. IT (Cyber Security)	Suthar Amit	Wazuh - Hightech Security Software for Threat Management	SIEM, SOC Analysis
186	22084321001	Abhinand M.	M.Sc. IT (Cyber Security)	Suthar Amit	Securing Network with Wazuh	SIEM, SOC Analysis
187	22084321010	Sonawane Akash Murlidhar	M.Sc. IT (Cyber Security)	Suthar Amit	Securing Network with Wazuh	SIEM, SOC Analysis
188	22084321003	Bhatiya Kartik Bharatkumar	M.Sc. IT (Cyber Security)	Suthar Amit	VAPT	WebApp Pentesting
189	22084321006	Jat Jitendra Ramchandra	M.Sc. IT (Cyber Security)	Suthar Amit	VAPT	WebApp Pentesting

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Computer Applications						
190	22084321015	Chaudhari Tusharbhai Govindbhai	M.Sc. IT (Cyber Security)	Suthar Amit	VAPT	WebApp Pentesting
191	22084321004	Deshani Harshad Govindbhai	M.Sc. IT (Cyber Security)	Suthar Amit	VAPT	WebApp Pentesting
192	22084321011	Roy Subhojit	M.Sc. IT (Cyber Security)	Suthar Amit	Offensive Pentesting	WebApp & Mobile App Pentesting
193	22084321009	Seydhali A.	M.Sc. IT (Cyber Security)	Suthar Amit	Offensive Pentesting	WebApp & Mobile App Pentesting
194	22084321012	Thakar Jigar Bhaveshkumar	M.Sc. IT (Cyber Security)	Suthar Amit	VAPT	WebApp Pentesting

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Management Studies						
01	22044311079 22044311114 22044311115 22044311125 22044311128	Patel Dhruv G. Prajapati Om Prajapati Tanmay Raval Jaymit B. Salat Zeelkumar	Finance	Jha Dhara B.	Impact of Fund Manager and Fund House on Mutual Funds Performance of Equity Linked Saving Scheme	Mutual Fund
02	22044311052 22044311072 22044311132 22044311140 22044311144	Manasiya Sarfaraj Y. Parmar Komal J. Shah Kitika G. Shobhan Smruti N. Sipai Muskan I.	Finance	Desai Jaydipsinh R.	Comparative Performance Analysis of Selected Active and Passive Mutual Fund Schemes with Respect to India and USA	Mutual Fund
03	22044311028 22044311051 22044311097 22044311112 22044311155	Dave Khushi P. Mali Rekha Hemaji Patel Srushti B. Prajapati Kajal R. Trivedi Shashank B.	Finance	Vyas Shital H.	Impact of Green Banking on Financial Performance	Green Banking
04	22044311025 22044311158 22044311117 22044311153 22044311006	Darbar Sanjay D. Vyas Chandni S. Raj Virajsinh A. Thakor Mitesh V. Babi Raiyan M.	Finance	Jha Dhara B.	Return to Buying Winners and Selling Losers: Implications to Stock Market Efficiency	Stock Market
05	22044311091 22044311093 22044311118	Patel Pulsy A. Patel Sakshi P. Rajpal Harvi A.	Finance	Jha Dhara B.	Does Corporate Social Responsibility Drive Financial Performance In Oil & Gas and Automobile Companies	Financial Performance

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Management Studies						
06	22044311011 22044311015 22044311024 22044311116 22044311156	Bariya Alka Sunilbhai Bharucha Tisa R. Choray Garima M. Prajjwal Jaiswal Vaghela Jyoti H.	Finance	Jha Dhara B.	Impact of Artificial Intelligence Applications on Financial Performances of Selected Banks	Impact of AI on Banking Services
07	22044311038 22044311080 22044311086 22044311090 22044311109	Jindani Sunera Y. Patel Hani A. Patel Kishan N. Patel Pooja S. Prajapati Dhruvi A.	Finance	Rathod Nirali R.; Jha Dhara B.	Understanding the Impact of Capital Structure Decisions on Profitability of Indian Steel Sector: A Moderating Impact of Market Size	Profitability of Indian Steel Sector
08	22044311148 22044311100 22044311105 22044311121	Soni Krusha B. Patel Vaibhav H. Pipaliya Riddhi B. Rathod Pavan N.	Finance	Vyas Shital H.	Repercussions of Financial Distress on the Valuation of FMCG Sector	Valuation of FMCG Sector
09	22044311034 22044311035 22044311042 22044311043 22044311145	Hadvani Mona A. Janjrukiya Happy P. Kalariya Nancy G. Kamani Riddhi L. Sojitra Krupa A.	Finance	Vyas Shital H.	IPO Performance: A Decade of Insights (2014-2024)	IPO Performance
10	22044311062 22044311066 22044311067 22044311134 22044311151	Nayi Daxish N. Panchal Fenali N. Panchal Sweta V. Shah Sanskruti C. Thakkar Urvashi T.	Finance	Desai Jaydipsinh R.	Analysing Factors Affecting Stock Market Closing of Selected Market Indexes of India And USA	Stock Market

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Management Studies						
11	22044311111 22044311130 22044311141 22044311106 22044311150	Prajapati Jitu B. Savnani Tanya A. Shrimali Khanak K. Postariya Rajavi H. Suthar Jenish Y.	Finance	Jha Dhara B.	Stock Market Reaction to Merger Announcement	Stock Market
12	22044311004 22044311057 22044311068 22044311107 22044311124	Angnani Lavisha B. Mehta Sakshi S. Parikh Jeet J. Prajapati Abhishek R. Raval Dhruv N.	Finance	Vyas Shital H.	Analysis of Non-Performing Assets, Capital Adequacy Ratio, Investment Income, Operating Expenses, and Deposits on the Return on Assets of Selected Banks	Banking Systems
13	22044311020 22044311021 22044311060 22044311099	Chaudhary Nirav K. Chaudhary Virendra B. Modi Dhrumil B. Patel Utvi Vadilal	Finance	Rathod Nirali R.; Desai Jaydipsinh R.	Impact of Non-Performing Assets of Bank on their Stock Price	Banking & Stock Market
14	22044311036 22044311041 22044311138 22044311137 22044311012	Panchal Jay Jayesh Joshi Shubham Arun Sharma Nishu S. Shaikh Mohammadfaim Barot Amisha A.	Finance	Desai Jaydipsinh R.	Impact of Crude Oil Price on Performance of Energy Indexes	Stock Exchange & Crude Oil
15	22044311007 22044311022 22044311030 22044311078 22044311074	Bachani Sanjay H. Chauhan Dhaval B. Devani Parth P. Patel Brijesh J. Parmar Rahul K.	Finance	Rathod Nirali R.; Vyas Shital H.	Study on Comparative Performance of Health Insurance Business of Public and Private General Insurance Companies in India	Health Insurance

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Management Studies						
16	22044311001 22044311008 22044311014 22044311040 22044311061	Abhishek Raj Bairwa Divya D. Barot Yatri J. Joshi Chetan G. Modi Dhruvi J.	Finance	Rathod Nirali R.; Jha Dhara B.	Study on Impact of Exchange Rates on NSE Indices	Exchange Rates
17	22044311071 22044311059 22044311047 22044311070 22044311010	Parmar Hardik D. Modi Darshan V. Maheta Amit B. Parmar Devya B. Baria Unnati B.	Finance	Rathod Nirali R.; Vyas Shital H.	Impact of the Union Budget on Stock Prices of Automobile Industry	Stock Market
18	22044311073 22044311063 22044311094	Parmar Mayur M. Nayi Gaurav Ratilal Patel Shivam Ajitbhai	Finance	Desai Jaydipsinh R.	Analysing Working Capital Management and Corporate Performance of Pharmaceutical Sector	Working Capital Management
19	22044311122 22044311154 22044311136 22044311131 22044311126	Rathod Shivangi B. Thakor Vidhi R. Shah Tirth R. Shah Bhakti H. Rupawat Navya S.	Marketing	Patel Jayesh D.	Experimenting Human Vs. Non-Human AI Chatbot Avatar Effect on Customer Satisfaction	Customer Satisfaction
20	22044311002 22044311017 22044311064 22044311077 22044311133	Akshat Gupta Chandrakanta Swain Nayi Priyanshu J. Patel Bansi B. Shah Parth V.	Marketing	Radia Karan N.	Analysing the Impact of Nostalgic Brand Purchasing on Ott Service Preferences: A Study on Netflix Users	E-Commerce Services

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Management Studies						
21	22044311075 22044311096 22044311139 22044311089 22044311013	Parmar Utsav P. Patel Smit S. Shekh Mahamadabrar Patel Parth M. Barot Meet Anilkumar	Marketing	Halvadia Nirav B.	Impact of Online and Offline Customer Experience on Customer Repurchase Intention: Mediating Role of Customer Satisfaction	Customer Satisfaction
22	22044311016 22044311098 22044311110 22044311142	Bhatt Dhruvi J. Patel Sweeti D. Prajapati Isha J. Shukal Heli S.	HRM	Singh Anuradha R.	Study on Impact off Training and Development through Different Modes on Employee's Performance	Employee's Performance
23	22044311005 22044311018 22044311119 22044311104	Avishek Raj Chaudhari Ritik M. Rane Lubdha R. Payal Jha	Marketing	Halvadia Nirav B.	Impact of Brand Salience on Brand Equity, The Mediating Role of Brand Loyalty, And Moderating Effect of Brand Trust	Brand Management
24	22044311058 22044311069 22044311075 22044311084 22044311092	Meman Ayman A. Parmar Abhishek K. Parmar Utsav P. Patel Kajal Jayantilal Patel Riddhi G.	Marketing	Shah Mihir B.	Consumer Online Word of Mouth: Role of After Sales Service	Consumer Services
25	22044311023 22044311048 22044311050 22044311123	Chavda Dharmesh K. Maheta Mamta B. Makwana Nikhil K. Rathva Dharmesh N.	HRM	Singh Anuradha R.	Job Satisfaction and Its Impact on Moonlighting and Turnover Intention: Mediating Effect of Organisational Commitment	Job Satisfaction

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Management Studies						
26	22044311101 22044311127 22044311129 22044311143 22044311157	Patel Viki Jayantibhai Sagar Aaserkar Sav Dipak M. Singh Aesha Loveleen Varun Solanki	Marketing	Radia Karan N.	Effect of Chatbots User Interaction on Customer Loyalty in Digital Era	Customer Loyalty in Digital Era
27	22044311019 22044311026 22044311027 22044311029 22044311152	Chaudhary Darsh K. Darji Darshan D. Darji Krishna P. Desai Neel B. Thakor Jignesh C.	Marketing	Talreja Pratima	Impact of Customer Experience, Satisfaction, Trust & Perceived Quality on Brand Loyalty	Brand Loyalty
28	22044311039 22044311054 22044311081 22044311102	Joshi Aastha Kapildev Margi Patel Patel Hani Kiritkumar Patel Yashvi S.	HRM	Singh Anuradha R.	Study on Procedural Justice Influencing Job Performance: Mediating Role of Organizational Trust, Job Satisfaction, and Affective Commitment	Job Performance
29	22044311049 22044311065 22044311088 22044311103 22044311147	Patel Maitri Pradeep Paliwal Lochan Patel Nachiket K. Pathan Akshabanu S. Solanki Dhvani S.	Marketing	Patel Hiren J.; Shah Mihir B	Multi-Analytic Approach to Predict Social Media Marketing Influence on Customer Purchase Intention: The Mediating Role of Customer Brand Engagement	Brand Management
30	22044311032 22044311045 22044311087 22044311108 22044311003	Gandhi Vraj P. Kotwal Hely M. Patel Meet C. Prajapati Dheeraj T. Amrutiya Nikunj V.	Marketing	Shah Mihir B.	Impact of Immersion Influences Behavior Intention in Tourism Industry Using Metaverse	Consumer Behavior in Tourism Industry

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Management Studies						
31	22044311146 22044311095 22044311009 22044311056 22044311083	Solanki Bhavesh J. Patel Siddharth J. Baldaniya Jayesh R. Joshi Meet H. Patel Jimmy K.	Marketing	Talreja Pratima	Impact of Social Media Influencer on Instagram User Purchase Intention : The Fashion Industry	Social Media Marketing
32	22044311033 22044311044 22044311120 22044311113 22044311031	Goriya Jayesh L. Kantariya Chand R. Rathod Gautam K. Prajapati Maitri Y. Agrawal Dhruvil S.	Marketing	Patel Jayesh D.	Attitude towards Minimalism in Capsule Hotels: Role of Tourist's Biospheric and Egoistic Value	Attitude towards Minimalism

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Science						
01	22064511001	Aghera Tulsi Jayantilal	Microbiology	Shah Hardik	Microbial Limit Test for Albendazole Oral Suspension	Pharmaceutical
02	22064511002	Ajudiya Dhruvi Hardasbhai	Microbiology	Arya Riteshkumar	Microbiological study of oral microflora humans consuming tobacco products.	Microbiology
03	22064511003	Damor Mehulkumar Khumansinh	Microbiology	Prajapati Madhvi	Miceobial teating of milk & dairy products	Food
04	22064511004	Faldu Blisa Ashwinbhai	Microbiology	Shah Hardik	Microbial analysis of water system in pharmaceutical industry	Microbiology
05	22064511005	Gameti Roshni Sureshbhai	Microbiology	Prajapati Madhvi	Microbiology laboratory techniques	Microbiology
06	22064511006	Ganvit Kinjalben Shantilal	Microbiology	Prajapati Dhaval	Microbial limit test of finished product	Microbiology
07	22064511007	Ganvit Tanviben Ratilal	Microbiology	Rami Nehal	Microbiological testing technique of pharmaceutical drugs	Industrial Biotechnology / Microbiology

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Science						
08	22064511008	Gayakvad Bhaviniben Babubhai	Microbiology	Rami Nehal	Environmental monitoring	Microbiology
09	22064511009	Joshi Dhruvi Yogeshkumar	Microbiology	Shah Hardik	Microbiological Analysis of Paneer	Food
10	22064511010	Kanasagara Shyam Tusharbhai	Microbiology	Arya Riteshkumar	Injectable Product of Amoxicillin by Sterility and Bet Test	Pharmaceutical
11	22064511011	Khanpara Keshaben Jayeshbhai	Microbiology	Joshi Ushma	Microbial limiting test for product in pharmaceutical industry	Pharmaceutical
12	22064511012	Khirari Divyeshkumar Rajendrabhai	Microbiology	Patel Bhoomi	Internship	Pharmaceutical
13	22064511013	Solanki Krishnapal Singh	Microbiology	Prajapati Dhaval	water analysis	Microbiology
14	22064511014	Makvana Madhavbhai Parbatbhai	Microbiology	Prajapati Dhaval	Environmental Monitoring	Microbiology

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Science						
15	22064511015	Maldharya Mayankbhai Ramanbhai	Micro-biology	Prajapati Dhaval	Internship	Pharmaceutical
16	22064511016	Patel Harshil Popatbhai	Micro-biology	Patel Bhoomi	Role of Water Analysis Quality Control in pharmaceutical	Microbiology
17	22064511017	Patel Jiyaben Vishnubhai	Micro-biology	Shah Hardik	Environmental monitoring	Pharmaceutical
18	22064511020	Patel Nidhi Haribhai	Micro-biology	Patel Bhoomi	Isolation of Antioxidants and anti-inflamantion of ginger tincture.	Food
19	22064511021	Patel Pal Anilkumar	Micro-biology	Arya Riteshkumar	Microbiological analysis of Milk and Milk products	Food
20	22064511022	Patel Rushika Sanjaykumar	Micro-biology	Patel Bhoomi	Microbiological analysis of water in pharmaceutical industry	Pharmaceutical
21	22064511023	Patel Rutvi Rakeshbhai	Micro-biology	Patel Gayatri	Microbial Examination of Non-sterile products	Microbiology

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Science						
22	22064511024	Patel Srushti Mahendrabhai	Micro-biology	Shah Hardik	Microbiological Tests For Pharmaceutical Products	Microbiology
23	22064511025	Patel Unnati Kanubhai	Micro-biology	Shah Hardik	Microbial analysis of water used for pharmaceutical purposes	Microbiology
24	22064511026	Patel Zeel Rajendrakumar	Micro-biology	Prajapati Madhvi	Microbial enumeration of pharmaceutical water	Pharmaceutical
25	22064511027	Prajapati Arpitaben Sureshbhai	Micro-biology	Prajapati Dhaval	Production, Analysis and packaging of buttermilk and curd in mehsana dairy	Microbiology
26	22064511031	Savasani Bansi Rajeshbhai	Micro-biology	Joshi Ushma	Bacterial Endotoxin Test	Pharmaceutical
27	22064511032	Solanki Kalpana Hirabhai	Micro-biology	Joshi Ushma	Microbial analysis of water in pharmaceutical industry	Microbiology
28	22064511033	Tadvi Sejalben Sanjaybhai	Micro-biology	Jadav Sejal	Water analysis in pharmaceutical industry	Microbiology

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Science						
29	22064511034	Thakkar Rutvi Chetanbhai	Microbiology	Patel Gayatri	Biochemical characterization of drug resistant bacteria isolated from patients suffering from respiratory tract infection	Microbiology
30	22064511035	Vadar Pooja Lakhmanbhai	Microbiology	Patel Gayatri	Microbial Limit Test for Prpduct in Pharmaceutical Industry	Pharmaceutical
31	22064511036	Vaghela Greeva Kanaksinh	Microbiology	Prajapati Madhvi	Microbial testing of dairy products	Microbiology
32	22064511037	Valand Kinjalkumari	Microbiology	Prajapati Dhaval	Internship training in Pathology laboratory at kd hospital	Microbiology
33	22064511038	Vaniya Vishal Kumar Somchand Bhai	Microbiology	Patel Nirav	Dairy	Food
34	22064511040	Zala Brijraj N.	Microbiology	Jadav Sejal	Environmental monitoring	Microbiology
35	22064511042	Antiya Payal Jayantibhai	Microbiology	Prajapati Dhaval	Humic acid production	Microbiology

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Science						
36	22064511043	Barot Janvi Mukeshbhai	Micro-biology	Mistri Riddhi	Water analysis	Microbiology
37	22064511044	Barot Rutika Dharmendra	Micro-biology	Joshi Ushma	Microbiological examination of non-sterile dosage forms (microbial limit test)	Pharmaceutical
38	22064511045	Bhalakiya Ushaben Manubhai	Micro-biology	Patel Gayatri	Microbial Analysis of Water in Pharmaceutical Industry	Pharmaceutical
39	22064511046	Dabhi Drashti Nareshkumar	Micro-biology	Patel Gayatri	In Pathology and Microbiology Laboratory Training	Other
40	22064511047	Gami Nikita Dineshbhai	Micro-biology	Suthar Satyam	Isolation of antioxidant and inflammation in basil tincture	Food
41	22064511048	Gavlee Kiranbhai Tukarambhai	Micro-biology	Arya Riteshkumar	Bioburden test	Pharmaceutical
42	22064511049	Hirpara Dhara Lalitbhai	Micro-biology	Arya Riteshkumar	Phenotypic Characterization of lactic acid bacteria with best probiotic potentials isolated from Kankrej Breed Cow Milk Samples	Microbiology

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Science						
43	22064511050	Ilasariya Dhruvi Virabhai	Micro-biology	Rami Nehal	Humic acid production	Industrial Biotechnology / Microbiology
44	22064511051	Joshi Priti V.	Micro-biology	Rami Nehal	Bacteriology and serology training	Microbiology
45	22064511053	Kanasya Arpanaben Ranchhodbhai	Micro-biology	Jadav Sejal	Microbial limit test for finished product	Pharmaceutical
46	22064511054	Kardam Toshi Sanjay	Micro-biology	Arya Riteshkumar	Bacteriological analysis of water	Microbiology
47	22064511055	Katara Rinkuben Dineshbhai	Micro-biology	Prajapati Madhvi	Method validation of microbiological examination for non-sterile products	Microbiology
48	22064511057	Patel Dhruv A.	Micro-biology	Patel Gayatri	Water analysis	Industrial Biotechnology / Microbiology
49	22064511057	Patel Dhruv Anilbhai	Micro-biology	Patel Gayatri	Water analysis in pharmaceutical products	Industrial Biotechnology / Microbiology

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Science						
50	22064511059	Patel Happy Bharatbhai	Micro-biology	Jadav Sejal	Pharmaceutical production of Omeprazole capsule	Microbiology
51	22064511060	Patel Hasmitaben Jesingbhai	Micro-biology	Jadav Sejal	Isolation and Characterization of Anaerobic Bacteria from Medical Specimen	Microbiology
52	22064511061	Patel Khushali Rajeshbhai	Micro-biology	Joshi Ushma	Importance and application of bacterial endotoxin test in pharmaceutical industry	Pharmaceutical
53	22064511062	Patel Margi Chandraprakash	Micro-biology	Jadav Sejal	Microbiological Environmental Monitoring	Pharmaceutical
54	22064511064	Patel Meetkumar Dahyabhai	Micro-biology	Arya Riteshkumar	Microbial limit test for products in pharmaceutical industry	Pharmaceutical
55	22064511065	Patel Shreya Vinodkumar	Micro-biology	Joshi Ushma	Microbial limit test	Pharmaceutical
56	22064511066	Pathak Dhanshri Dipak kumar	Micro-biology	Patel Bhoomi	Water analysis and endotoxin test of pharmaceutical grade water	Pharmaceutical

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Science						
57	22064511067	Prajapati Pruthaben Rameshbhai	Microbiology	Joshi Ushma	Molecular diagnostic of staphylococcus aureus by Multiplex PCR from local dairy samples.	Microbiology
58	22064511068	Raol Jayveersinh Pradipsinh	Microbiology	Rami Nehal	Environmental monitoring	Microbiology
59	22064511070	Sahare Jagdishbhai Chandarbhai	Microbiology	Prajapati Madhvi	Bacterial Endotoxin test	Pharmaceutical
60	22064511071	Selot Anamikaben Bhagabhai	Microbiology	Patel Bhoomi	Bacterial Endotoxin Test	Pharmaceutical
61	22064511072	Solanki Urvashi Ashokkumar	Microbiology	Thakar Sudama	Water analysis	Pharmaceutical
62	22064511073	Sorthiya Nupur	Microbiology	Jadav Sejal	Studies on antidandruff effects of natural herbal products against drug resistant fungi isolated from human hair	Microbiology
63	22064511074	Thakar Dimpalben Vipulkumar	Microbiology	Joshi Ushma	Hematological test	Microbiology

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Science						
64	22064511075	Thakkar Snehal	Micro-biology	Upadhyay Preksha	Microbiological analysis of water used in pharmaceuticals	Microbiology
65	22064511076	Vasava Amishaben Arunbhai	Micro-biology	Patel Gayatri	Medical Laboratory	Microbiology
66	22064511078	Prajapati Ajay	Micro-biology	Prajapati Dhaval	Water analysis of pharmaceutical	Microbiology
67	22064511079	Khatri Hareshkumar Maheshbhai	Micro-biology	Patel Gayatri	Water analysis in pharmaceutical industry	Pharmaceutical
68	22064511080	Kholavadiya Chiragkumar Kantibhai	Micro-biology	Suthar Satyam	Determination of microbial quality of organic clove tincture	Food
69	22064511081	Nalvaya Dharmistha Amarsin	Micro-biology	Patel Nisha	Microbiological examination of antibiotics by Sterility testing.	Microbiology
70	22064511083	Pathan Mahin Allaudinkhan	Micro-biology	Arya Riteshkumar	Microbial Enumeration of Pharmaceutical Water	Pharmaceutical

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Science						
71	22064511084	Tadvi Rushikaben Sureshbhai	Micro-biology	Rami Nehal	Industrial training	Pharmaceutical
72	22064511086	Narendra	Micro-biology	Jadav Sejal	Microbiological Environmental Monitoring In Pharmaceutical Industry	Pharmaceutical
73	22064581001	Dhameliya Anurag Lalitbhai	Physics	Vyas Harsh	Comprehensive study on the implementation of 1-bit 6t SRAM cell in 180 nm technode using Ltspice.	VLSI Technology
74	22064581002	Garel Jitesh Manilal	Physics	Vyas Harsh	Innovative approach to synthesis some chemical material using solar Fresnel lens	Experimental Physics
75	22064581003	Mahala Vishal Ishwar	Physics	Khatri Hemal	Green Synthesis of Mg-Doped Barium Zinc X-Type Hexaferrite Ba ₂ zn ₂ -Xmgxfe _{28o46} :- FTIR Study	Materials Science
76	22064581004	Patel Nandni Pravinbhai	Physics	Shah Manali	Investigation of structural and optical properties of barium oxide by solid state combustion method	Materials Science
77	22064581005	Vaghela Mayur Narsinhbhai	Physics	Yadav Kunvar	Solar of plasma characteristics of solar flares during the rising a phase of solar cycle 25	Atmospheric Physics

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Science						
78	22064581006	Vasava Mukeshbhai Maljibhai	Physics	Khatri Hemal	Green Synthesis Of Co-Doped Barium Zinc X-Type Hexaferrite Ba ₂ zn ₂ -Xcoxfe _{28o46} :- FTIR Study	Materials Science
79	22064581007	Ghanchi Mohammed Zareef	Physics	Shah Manali	Comparative study of CMOS and FinFET Logic using Inverter, NOR Gate and Half-Adder circuits.	VLSI Technology
80	22064581008	Majevadiya Bhakti Bakulbhai	Physics	Desai Darshan	Comparison Between CMOS Technology & FinFET Technology for NAND Gate & 28T Full Adder	VLSI Technology
81	22064581009	Prajapati Arpitkumar Manilal	Physics	Yadav Kunvar	Design and Analysis of flip-flop: Power and Propagation delay calculation using 180nm Technology node in LTspice	VLSI Technology
82	22064581010	Vyas Darshan	Physics	Desai Darshan	2x1 MUX using 180NM technology node	VLSI Technology
83	22064581011	Khadiya Nikunj Ghanshyambhai	Physics	Yadav Kunvar	How to change orbit of satellite	Atmospheric Physics
84	22064581012	Patel Kunj Kalpeshbhai	Physics	Yadav Kunvar	Study of exoplanets using transit and radial velocity methods: A comprehensive analysis of detection parameters	Atmospheric Physics

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Science						
85	22064521002	Ahir Hareshbhai Haldasbhai	Bio-technology	Patel Priti	Production and Quality control methods for Oracor Gel	Pharmaceutical Biotechnology
86	22064521003	Anadariya Akshit Mahendrabhai	Bio-technology	Chibber Sandesh	Production of Metoprolol Tablet	Pharmaceutical Biotechnology
87	22064521005	Chaudhari Khushbuben Rameshbhai	Bio-technology	Patel Vishal	Production and Quality control methods of Ketowex Cream	Pharmaceutical Biotechnology
88	22064521006	Chavada Vishalsinh Bharatsinh	Bio-technology	Dave Kruti	Study on Production and Quality control methods of Fungidole cream	Pharmaceutical Biotechnology
89	22064521008	Gurjar Mrudangi Govindkumar	Bio-technology	Patel Vishal	Plant Tissue culture of Musa Paradisiaca	Pharmaceutical Biotechnology
90	22064521009	Khandelwal Jahanvi	Bio-technology	Chavda Nikita	Humic acid Production	Pharmaceutical Biotechnology
91	22064581012	Joshi Yagnikkumar Rameshkumar	Bio-technology	Gohil Kinjalba	Gohil Kinjalba Water analysis Pharmaceutical grade water and microbial limit test of Pharmaceutical products	Pharmaceutical Biotechnology

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Science						
92	22064521002	Kalmi Kajubhai Himsingbhai	Bio-technology	Patel Mrunali	A collagen based formulation for sustained released of Aflibercept	Pharmaceutical Biotechnology
93	22064521003	Katara Darshankumar Shankarbhai	Bio-technology	Patel Priti	Selection and Development of Recombinant cell line for manufacturing of the biosimilar trastuzumab	Pharmaceutical Biotechnology
94	22064521005	Sompura Lakshya	Bio-technology	Chibber Sandesh	Study on production of Luliconazole cream	Pharmaceutical Biotechnology
95	22064521006	Machhar Sanjaykumar Shantilal	Bio-technology	Desai Amruta	Manufacturing process of Pharmaceutical products	Pharmaceutical Biotechnology
96	22064521008	Memon Irfan	Bio-technology	Dave Kruti	A simple HPLC methods for the determination of Omeprazole in vitro	Pharmaceutical Biotechnology
97	22064521009	Muniya Chhayaben Amarsinh	Bio-technology	Patel Vishal	Physicochemical and Microbial characterization of domestic Waste Water	Pharmaceutical Biotechnology
98	22064521019	Parmar Vaishali Ashvinkumar	Bio-technology	Chaudhary Roshani	The Importance and application of bacterial endotoxin test in Pharmaceutical Industry	Pharmaceutical Biotechnology

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Science						
99	22064521020	Parmar Dashrathbhai Rajubhai	Bio-technology	Gohil Kinjalba	Bevacizumab as VEGF inhibitor in Anti-angiogenic therapy	Pharmaceutical Biotechnology
100	22064521022	Patel Ghanshyam	Bio-technology	Patel Priti	Determination of assay of Glibenclamide API by HPLC	Pharmaceutical Biotechnology
101	22064521023	Patel Hani Shaileshbhai	Bio-technology	Patel Priti	Plant Tissue culture of Musa Paradisiaca	Pharmaceutical Biotechnology
102	22064521026	Patel Himanshu Sahjanand	Bio-technology	Chibber Sandesh	Effect of Biofertilizer on Capsicum frutescens	Pharmaceutical Biotechnology
103	22064521029	Patel Maitri Vijaybhai	Bio-technology	Patel Vishal	Production and Quality control methods of Rexo Gel	Pharmaceutical Biotechnology
104	22064521030	Patel Maitriben Manojkumar	Bio-technology	Dave Kruti	Microbial analysis of Pharmaceutical products	Pharmaceutical Biotechnology
105	22064521031	Patel Mihirkumar Bhailalbhai	Bio-technology	Patel Vishal	To study the biotechnological potential of Moderately Halophiles from various sites of Gujarat	Pharmaceutical Biotechnology

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Science						
106	22064521033	Patel Pooja Harsadkumar	Bio-technology	Chaudhary Roshani	Optimisation and characterization of acacia nilotica based on biodiesel	Pharmaceutical Biotechnology
107	22064521035	Patel Riya Mayankkumar	Bio-technology	Gohil Kinjalba	Randomised controlled drugs of confidential Patients	Pharmaceutical Biotechnology
108	22064521037	Patel Sauravkumar Vinodbhai	Bio-technology	Chaudhary Roshani	BET,MLT, Water Analysis, GPT, Media prapasation, Sterility test, Enviornment Monitoring,GIT,etc.	Pharmaceutical Biotechnology
109	22064521038	Patel Shreyaben	Bio-technology	Patel Priti	Investigating Antimicrobial activity in Medicinal Plant	Pharmaceutical Biotechnology
110	22064521039	Patel Urjaben Anilbhai	Bio-technology	Patel Priti	Quality control Analyst of Enviornmental Monitoring in Bio bulk manufacturing Area	Pharmaceutical Biotechnology
111	22064521040	Patel Vrushti Manojkumar	Bio-technology	Chibber Sandesh	Environmental Monitoring of Lab Testing Area	Pharmaceutical Biotechnology
112	22064521041	Patel Yesha Kamleshbhai	Bio-technology	Dave Kruti	Investigating Antioxydant and antimicrobial Properties in Medicinal Plant	Pharmaceutical Biotechnology

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Science						
113	22064521042	Pathan Farheen Banu	Bio-technology	Patel Vishal	Probiotic characteristics of Bacillus Coagulans	Pharmaceutical Biotechnology
114	22064521043	Pithadiya Krupa Vinodbhai	Bio-technology	Chavda Nikita	Decolorization of food dyes by Lactobacillus spp	Pharmaceutical Biotechnology
115	22064521045	Purohit Khushi Sudhirkumar	Bio-technology	Chaudhary Roshani	Analysis of Clotrimazole	Pharmaceutical Biotechnology
116	22064521046	Rathod Avantikaben Bharatsing	Bio-technology	Gohil Kinjalba	Pharmaceutical Tests Performed in QC Micro Department	Pharmaceutical Biotechnology
117	22064521047	Soni Mahima Rakheshkumar	Bio-technology	Gohil Kinjalba	Production and Quality control methods of Miconazole Nitrate cream	Pharmaceutical Biotechnology
118	22064521048	Thakor Khushbuben Rajuji	Bio-technology	Patel Priti	Antimicrobial activity of Murraya Koenigii (Curry Leaves)	Pharmaceutical Biotechnology
119	22064521049	Zala Dharmisthaben Akhusinh	Bio-technology	Chibber Sandesh	Assesment of Microbial quality of pharmaceutical water	Pharmaceutical Biotechnology

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Science						
120	22064521050	Anand Roshaniben Jagdishkumar	Bio-technology	Chibber Sandesh	Microbial limit test of glimepiride tablet for specified Microorganisms	Pharmaceutical Biotechnology
121	22064521051	Vyas Sakshi Ashokbhai	Bio-technology	Dave Kruti	Green Medicine : A study on the Antioxidant and Antidiabetic efficacy of plant extracts	Pharmaceutical Biotechnology
122	22064521052	Modi Hazy Vipulkumar	Bio-technology	Patel Vishal	To study the plant growth promoting potential of moderately Halophiles from various sites of Gujarat	Pharmaceutical Biotechnology
123	22064521053	Rajpurohit Nandni	Bio-technology	Chavda Nikita	Production and Quality control methods of Ketopen Cream	Pharmaceutical Biotechnology
124	20064561051	Memon Abdulsamad Yakubbhai	Organic Chemistry	Suthar Madhuri	Phaniramin Maleate	Analytical Chemistry
125	22064561001	Bhimani Bhargav Bharatbhai	Organic Chemistry	Patel Nihal	Study on Step Involved in Manufacturing Process and QC Analysis by Conducting Disintegration Test on Traxamac	QC Analysis
126	22064561002	Chaudhary Dasharathkumar Savabhai	Organic Chemistry	Rathod Reena	Steps and Quality Control Analysis of Azithromycin	QC Analysis

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Science						
127	22064561003	Chaudhary Kamlesh Damrabhai	Organic Chemistry	Bhola Ravi	Isolation and Purification of Recombinant Protein	Pharmaceutical Chemistry
128	22064561004	Chauhan Ashishbhai Rameshbhai	Organic Chemistry	Makavana Madhuresh	Isolation and Purification of Recombinant Protein	Pharmaceutical Chemistry
129	22064561005	Chavada Akash Chandrakant	Organic Chemistry	Barot Trupti	Production of Amoxicillin Tablet	Pharmaceutical Chemistry
130	22064561006	Chhatrara Dharmik Hasmukhbhai	Organic Chemistry	Bhola Ravi	Production of Metoprolol Tablet	Pharmaceutical Chemistry
131	22064561007	Daiya Kalpeshkumar Bharatbhai	Organic Chemistry	Bhola Ravi	Selection And Development of Recombinant Cell Line for Manufacturing of the Biosimilar Trastuzumab	Pharmaceutical Chemistry
132	22064561009	Dhandhukiya Shubham Rajeshbhai	Organic Chemistry	Bhola Ravi	Intermediate Production Workshop	Pharmaceutical Chemistry
133	22064561011	Gohil Jaydeep Rasikbhai	Organic Chemistry	Bhola Ravi	Manufacture of Drugs & Intermediates	Pharmaceutical Chemistry

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Science						
134	22064561013	Prajapati Govind Kumar	Organic Chemistry	Bhola Ravi	Study on Manufacturing Process of Fluconazole Tablet IP 200 Mg	Pharmaceutical Chemistry
135	22064561015	Chaudhari Hiral Ganeshbhai	Organic Chemistry	Bhatt Keyur	Synthesis of Aspirin and their Application	Pharmaceutical Chemistry
136	22064561016	Hirani Bhargavkumar Arvindbhai	Organic Chemistry	Bhola Ravi	Quality Control Test for Metformin	Pharmaceutical Chemistry
137	22064561020	Makavana Bhikhabhai Dahyabhai	Organic Chemistry	Vaghani Hasit	"Understanding the Manufacturing Journey: Steps and Quality Control Analysis of Ketoconazole"	Pharmaceutical Chemistry
138	22064561023	Masot Drashti Mukeshbhai	Organic Chemistry	Bhatt Keyur	Qualitative Analysis of Diclofenac Sodium Tablet	QC Analysis
139	22064561027	Panda Amitbhai Jitendrabhai	Organic Chemistry	Makavana Madhuresh	Analysis of Montelukast Sodium and Operating QC Instruments	QC Analysis
140	22064561028	Patel Pankaj Chandrakantbhai	Organic Chemistry	Das Prasanta	Intermediate Production Workshop	Pharmaceutical Chemistry

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Science						
141	22064561029	Patel Akhil Rajeshkumar	Organic Chemistry	Patel Devdatt	Qualitative Analysis of Parental Product of Dextrose Injection 5% W/V	QC Analysis
142	22064561030	Patel Anshkumar Rakeshbhai	Organic Chemistry	Kanzariya Bhavik	Qualitative Analysis of Bisacodyl	QC Analysis
143	22064561031	Patel Dhruvil	Organic Chemistry	Barot Trupti	Production of Telmisartan Tablet	Pharmaceutical Chemistry
144	22064561032	Patel Dipenkumar Ashokbhai	Organic Chemistry	Suthar Madhuri	Industrial Monitoring of Methimazol and Its Operating Procedures	Pharmaceutical Chemistry
145	22064561033	Patel Fenil Dilipbhai	Organic Chemistry	Bhola Ravi	Production of Ibuprofen Tablets	Pharmaceutical Chemistry
146	22064561035	Patel Harshkumar Jayantibhai	Organic Chemistry	Patel Nihal	Analysis of Drug Entecavir by Analytical Instruments	Pharmaceutical Chemistry
147	22064561036	Patel Helly Kaushikkumar	Organic Chemistry	Patel Sarika	Advance Equipment in Dairy Technology	Pharmaceutical Chemistry

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Science						
148	22064561038	Patel Krunal Mukeshbhai	Organic Chemistry	Patel Nihal	Analysis of Montelukast Sodium and Operating QC Instrument	Pharmaceutical Chemistry
149	22064561042	Patel Vidhikumar Piyushbhai	Organic Chemistry	Bishnoi Prakash	Synthesis, Analysis and Manufacturing of Fexofenadine Hcl Tablet	QC Analysis
150	22064561044	Prajapati Chirag Keshavlal	Organic Chemistry	Patel Sarika	Dissolution Study of Dolomol	Pharmaceutical Chemistry
151	22064561045	Rathod Hemrajsinh	Organic Chemistry	Barot Trupti	IR Spectroscopy	Pharmaceutical Chemistry
152	22064561047	Raval Parthkumar Bharatbhai	Organic Chemistry	Suthar Madhuri	Production of Ibuprofen Drug	Pharmaceutical Chemistry
153	22064561049	Sathvara Vikaskumar Dineshbhai	Organic Chemistry	Makavana Madhuresh	Tacrolimus Drug	Pharmaceutical Chemistry
154	22064561050	Patel Saxi M.	Organic Chemistry	Patel Sarika	Production of Amoxicillin	Pharmaceutical Chemistry

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Science						
155	22064561051	Shah Janvi Hiteshkumar	Organic Chemistry	Patel Sarika	Microcrystalline of Cellulose Powder	Pharmaceutical Chemistry
156	22064561052	Solanki Bhaumikkumar Savjibhai	Organic Chemistry	Patel Nihal	Process Validation of Tranexamic Acid	Pharmaceutical Chemistry
157	22064561060	Thakor Vishalsinh Prabhatsinh	Organic Chemistry	Suthar Madhuri	Quality Control Tests for Norethisteronnet Tablet& UV Visible Spectrometric Method	QC Analysis
158	22064561062	Vasava Vipulkumar Mathurbhai	Organic Chemistry	Vaghani Hasit	Synthesis of Ibuprofen and their Application	Pharmaceutical Chemistry
159	22064561063	Sengar Aishwarya Sureshsingh	Organic Chemistry	Patel Nihal	Analysis of Aripirazole	Pharmaceutical Chemistry
160	22064561065	Bhavsar Selvi Amitkumar	Organic Chemistry	Das Prasanta	Dissolution Study of Levocetirizine	Pharmaceutical Chemistry
161	22064561066	Bhut Neelkumar Pravinbhai	Organic Chemistry	Bhatt Keyur	Analysis of Drug Pimecrolimus bt using Analytical Instruments	Pharmaceutical Chemistry

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Science						
162	22064561069	Chaudhary Rajkumar Vishnubhai	Organic Chemistry	Makavana Madhuresh	Vitamin B12	Pharmaceutical Chemistry
163	22064561070	Chavada Yuvrajsinh Rajendrasinh	Organic Chemistry	Makavana Madhuresh	Production of Rabeprazol	Pharmaceutical Chemistry
164	22064561072	Dave Devang Yogeshkumar	Organic Chemistry	Makavana Madhuresh	Synthesis of Pentoprazole & Domperidone	Pharmaceutical Chemistry
165	22064561074	Thakor Dhavalji Amaratji	Organic Chemistry	Barot Trupti	Cell Growth and Anti-Cancer Drug Substance Pertuzumab Activity	Pharmaceutical Chemistry
166	22064561076	Gami Ronakkumar Vijaykumar	Organic Chemistry	Patel Devdatt	Studying about Production Process and Instrument	Pharmaceutical Chemistry
167	22064561077	Hingu Viraj Vipulbhai	Organic Chemistry	Bishnoi Prakash	A Study of Sophisticated Analytical Instrumentation	Pharmaceutical Chemistry
168	22064561078	Jagane Kaushalkumar Hitesbhai	Organic Chemistry	Patel Nihal	Synthesis and Char Diazo Derivatives of Naphthacterization Ofalene Sulphonic acid	Pharmaceutical Chemistry

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Science						
169	22064561079	Kalariya Ronak V.	Organic Chemistry	Patel Nihal	Synthesis of 4H- Chromene Derivatives	Pharmaceutical Chemistry
170	22064561080	Kamani Shyam Dhirajlal	Organic Chemistry	Bhatt Keyur	A Qualitative Study on Azithromycin Treatment for Respiratory Infection	Pharmaceutical Chemistry
171	22064561081	Khokhariya Keval Madhubhai	Organic Chemistry	Bishnoi Prakash	Synthesis and Characterization of Different Chromene Derivatives	Pharmaceutical Chemistry
172	22064561083	Makawana Meha Harasukhbhai	Organic Chemistry	Patel Nihal	Analysis of Levofloxacin (Tablet) and Aetemrther (Bulk) by using High Performance Liquid Chromatography (Assay Determination)"	Pharmaceutical Chemistry
173	22064561084	Malivad Yaminiben Rameshbhai	Organic Chemistry	Bhatt Keyur	Tranexamic Tablet	Pharmaceutical Chemistry
174	22064561087	Panchal Tushar Babulal	Organic Chemistry	Bishnoi Prakash	Study about Analytical Lab Instructions	Pharmaceutical Chemistry
175	22064561089	Parmar Jayeshkumar Bahechar Bhai	Organic Chemistry	Barot Trupti	Production of Paracetamol	Pharmaceutical Chemistry

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Science						
176	22064561093	Patel Brijeshkumar Vijaybhai	Organic Chemistry	Patel Devdatt	Application for Instrumentation based on Quality Control	Pharmaceutical Chemistry
177	22064561097	Patel Himani Chamanlal	Organic Chemistry	Patel Devdatt	A Study on Ciprofloxacin Hydrochloride Tablets	Pharmaceutical Chemistry
178	22064561100	Patel Meet Rajendra	Organic Chemistry	Patel Sarika	A Study of Sophisticated Analytical Instrumentation	Pharmaceutical Chemistry
179	22064561101	Patel Meet Shaileshkumar	Organic Chemistry	Bishnoi Prakash	Advance Equipment in Dairy Technology	Pharmaceutical Chemistry
180	22064561103	Patel Parthkumar Vishnubhai	Organic Chemistry	Das Prasanta	Intermediate Production & Characterization of RCMH	Pharmaceutical Chemistry
181	22064561105	Patel Ritu Ajitkumar	Organic Chemistry	Bhatt Keyur	Castor Oil	Pharmaceutical Chemistry
182	22064561106	Patel Shaluben Amrutbhai	Organic Chemistry	Bhatt Keyur	Dissolution of Metronidazole	Pharmaceutical Chemistry

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Science						
183	22064561107	Patel Srushti Ashokbhai	Organic Chemistry	Bhatt Keyur	Drug Analysis by HPLC	Pharmaceutical Chemistry
184	22064561108	Patel Urvish Alkeshbhai	Organic Chemistry	Patel Devdatt	Internship	Pharmaceutical Chemistry
185	22064561110	Prajapati Priya Suresh Kumar	Organic Chemistry	Patel Sarika	Advance Equipment in Dairy Technology	Pharmaceutical Chemistry
186	22064561111	Rabara Zeelkumar Hareshkumar	Organic Chemistry	Patel Nihal	Synthesis and Characterization of Novel Schiff base of Coumarin Derivative	Pharmaceutical Chemistry
187	22064561112	Rathod Harshvardhansinh	Organic Chemistry	Vaghani Hasit	Production of Clotrimazole	Pharmaceutical Chemistry
188	22064561116	Sodha Sandip Ramjibhai	Organic Chemistry	Patel Nihal	Exploring Benzothiazole Derivatives: Synthesis and Characterization	Pharmaceutical Chemistry
189	22064561118	Solanki Yashkumar Mukeshbhai	Organic Chemistry	Barot Trupti	Production of Aceclofenac	Pharmaceutical Chemistry

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Science						
190	22064561119	Suvagiya Sanket Nileshbhai	Organic Chemistry	Vaghani Hasit	Synthesis of 4h-Chromene Derivative	Pharmaceutical Chemistry
191	22064561121	Valu Meet Shambhubhai	Organic Chemistry	Vaghani Hasit	Synthesis and Characterisation of Diazo Derivatives of Amino Thiazole	Pharmaceutical Chemistry
192	22064561128	Pawar Laxmi Rajendrabhai	Organic Chemistry	Bhatt Keyur	Indomethacin	Pharmaceutical Chemistry
193	22064561129	Vasava Jigneshbhai Fatesingbhai	Organic Chemistry	Vaghani Hasit	Synthesis of Penicillin and their Applications	Pharmaceutical Chemistry

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Social Sciences & Humanities						
01	22054961001	Gheesaram Bhargav Karan	M.com (F.A.)	Patel Vipul	An on-Job Dissertation Project In Partial Fulfillment of the Requirement for	On-Job Dissertation Project
02	22054961002	Goswami Rahulgiri R.	M.com (F.A.)	Patel Vipul	An on-Job Dissertation Project In Partial Fulfillment of the Requirement for	On-Job Dissertation Project
03	22054961003	Parmar Sarasvati D.	M.com (F.A.)	Patel Vipul	An on-Job Dissertation Project In Partial Fulfillment of the Requirement for	On-Job Dissertation Project
04	22054961004	Parmar Sandipkumar Vasantbhai	M.com (F.A.)	Patel Vipul	An on-Job Dissertation Project In Partial Fulfillment of the Requirement for	On-Job Dissertation Project
05	22054961005	Patel Ashika Rameshbhai	M.com (F.A.)	Patel Vipul	An on-Job Dissertation Project In Partial Fulfillment of the Requirement for	On-Job Dissertation Project
06	22054961007	Patel Mansi Prakashkumar	M.com (F.A.)	Patel Vipul	An on-Job Dissertation Project In Partial Fulfillment of the Requirement for	On-Job Dissertation Project
07	22054961008	Patel Bhoomi	M.com (F.A.)	Patel Vipul	An on-Job Dissertation Project In Partial Fulfillment of the Requirement for	On-Job Dissertation Project

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Social Sciences & Humanities						
08	22054961009	Patel Harsh Shashikant	M.com (F.A.)	Patel Vipul	An on-Job Dissertation Project In Partial Fulfillment of the Requirement for	On-Job Dissertation Project
09	22054961010	Patel Hetvi Rajanbhai	M.com (F.A.)	Patel Vipul	An on-Job Dissertation Project In Partial Fulfillment of the Requirement for	On-Job Dissertation Project
10	22054961011	Patel Jay Dineshbhai	M.com (F.A.)	Patel Vipul	An on-Job Dissertation Project In Partial Fulfillment of the Requirement for	On-Job Dissertation Project
11	22054961012	Patel Nupur Mukeshbhai	M.com (F.A.)	Patel Vipul	An on-Job Dissertation Project In Partial Fulfillment of the Requirement for	On-Job Dissertation Project
12	22054961013	Patel Vedanshi Ashvinbhai	M.com (F.A.)	Patel Vipul	An on-Job Dissertation Project In Partial Fulfillment of the Requirement for	On-Job Dissertation Project
13	22054961015	Antiya Vijay Amrutbhai	M.com (F.A.)	Patel Vipul	An on-Job Dissertation Project In Partial Fulfillment of the Requirement for	On-Job Dissertation Project
14	22094391001	Bhojak Jigar	MSW	Vanani Sanjay	Exploring The Challenges Faced By Primary Health Centre Workers In Banaskantha District	Primary health

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Social Sciences & Humanities						
15	22094391002	Bhoya Prashantkumar Rajubhai	MSW	Dasani Vikrantumar	Understanding Socio-Economic Conditions In The Context Of Unemployment In Navsari District	Employment
16	22094391003	Chaudhari Kiran	MSW	Dasani Vikrantkumar	A Study of the problems associated with Anganwadi Centers in Valsad District	Anganwadi
17	22094391004	Gayakvad Nalin	MSW	Vanani Sanjay	Evaluation of Impact and Effectiveness of Ayushman Bharat Yojana in Navsari District	Health scheme
18	22094391006	Kalasva Hitesh Abesinh	MSW	Dasani Vikrantumar	Drop-out from secondary and high secondary Schools in Tribal Panchmahal, Gujarat -Indi	Education
19	22094391007	Kapadiya Dhruvalkumar Manojkumar	MSW	Dave Hiral	A Study on Challenges Faced By Asha Workers In Ahmedabad City	Asha workers
20	22094391008	Makarani Namira	MSW	Dasani Vikrantumar	Understanding difficulties in content of parenting in digitizing world	Parenting
21	22094391009	Makvana Vijay	MSW	Dave Hiral	The Influence Of Freeship Cards On Rural Educational In India	Education

POST GRADUATE DISSERTATIONS

Sr. No.	Enrollment No.	Name of Student	Branch	Name of supervisor	Dissertation/Project Title	Broad Area of Research/Project
Faculty of Social Sciences & Humanities						
22	22094391010	Panchal Arati Liladharbhai	MSW	Dave Hiral	Study on the role of self-help group in empowering rural women	Employment
23	22094391012	Parmar Suhag	MSW	Dave Hiral	Street Children In Mehsana District: A Study On Their Access To Education	Children
24	22094391013	Patel Nidhiben Bharatbhai	MSW	Vanani Sanjay	Analysing the role of blended learning transformation in Mehsana district	Education
25	22094391014	Ravat Sunilkumar	MSW	Vanani Sanjay	Exploring The Challenges Faced By Primary Health Centre Workers In Banaskantha District	Health
26	22094391015	Vaghela Rashmika	MSW	Dasani Vikrantumar	A study on condition of working women Chhatral village	Women

Summer Student Research Internship Program

Sr. No.	Project Title	Name of supervisor	Name of Student	Broad Area of Research/Project
Summer Student Research Internship Program (GUNI-SSRIP)				
01	Impact of Land Use Transformation on Urban Heat Dynamics Using Remote Sensing and GIS in Mehsana District	Gupta Tanushree, Dwivedi Dhaval K.	Bhanushali Umang D.	Agriculture and allied sciences
02	Development of Al-SiC MMC using Casting Process	Patel Chirag P.	Vria Parth,	Engineering & Technology
03	Real-Time Garbage Detection	Parmar Prakruti, Shah Digant	Patel Ayush P., Panchal Krish A., Gondaliya Jaimin	Engineering & Technology
04	IOT based Smart Battery Management System (BMS) for 42V Li-ion Battery pack	Shah Kaumil B.	Parmar Ashvinkumar J., Ninama Jayshariben M., Patel Aman A.,	Engineering & Technology
05	A Chatbot for Student Wellness	Thakkar Manan, Sarvakar Ketan, Pandya Devang	Adeshara Brijesh G., Thakkar Dharmik V., Chaudhary Vishwas L.	Engineering & Technology
06	Weapon Detection System	Sarvakar Ketan, Pandya Devang, Prajapati Yogesh	Chavda RajdeepSinh	Engineering & Technology
07	3D Bio-Printer	Mevada Jignesh R.	Khunt Ruesh Khunt	Engineering & Technology

Summer Student Research Internship Program

Sr. No.	Project Title	Name of supervisor	Name of Student	Broad Area of Research/Project
Summer Student Research Internship Program (GUNI-SSRIP)				
08	Advanced Sign Language Recognition	Parmar Prakruti, Shah Digant	Dodia Jeet, Desai Kathan K., Shaikh Anik M.	Engineering & Technology
09	Eco Friendly Electric Vehicle Charger	Patel Rakeshkumar A.	Darji Arjun B., Suthar Krupesh K., Chauhan Chirag B.	Engineering & Technology
10	Sleepy iver Detection	Parmar Prakruti, Shah Digant	Patel Man	Engineering & Technology
11	Voter Authentication	Parmar Prakruti, Shah Digant	Gajjar Aayush N., Parikh Vishva P.	Engineering & Technology
12	Project Argus	Prajapati Yogesh, Patel Himanshu, Gami Chirag	Varude Mihir M.	Engineering & Technology
13	Phishing Detection using AI	Joshi Ritesh R., Patel Swati, Patel Savan	Imtiyaz Danish MD., Ankit Kumar	Computer Applications
14	Nifty Movement Prediction Using Comprehensive Data Model Based On Nifty Option Chain Data	Patel Savan	Detroja Vidhey, Sendhabhai N.	Computer Applications

Summer Student Research Internship Program

Sr. No.	Project Title	Name of supervisor	Name of Student	Broad Area of Research/Project
Summer Student Research Internship Program (GUNI-SSRIP)				
15	Risks and Mitigation Strategies in IPO Investing	Patel Narena I., Patel Meghna	Nayi Vivek J., Sirwani Prashant M.	Computer Applications
16	Speed breaker detection & early warning system	Patel Chanakant D.	Kumbhakar Kinkar, Kumbhakar Somnath, Jogi Birju J.	Computer Applications
17	Ezpark : open space autonomous parking management system using one camera with ai & ml	Bhatt Pankti	Ahuja Vanshika K., Patel Rua M.	Computer Applications
18	A Raspberry Pi-based System for Automatic Image Description and Conversion for Visually Impaired Individuals	Patel Meghna B., Raval Dhaval K.	Patel Devarshi A.	Computer Applications
19	Conversion of Sign Language to Text using AI and ML	Patel Meghna B., Raval Dhaval K.	Mehta Vrushabh	Computer Applications
20	Design and investigation of lathe Machine Guard from fused filament fabrication technique using Polyethylene terephthalate Glycol	Trivedi Achyut	Thakur Vishwajeet	Engineering & Technology

Winter Student Research Internship Programme

Sr. No.	Project Title	Name of supervisor	Name of Student	Broad Area of Research/Project
Winter Student Research Internship Programme (GUNI-WSRIP)				
01	The Impact of Dietary Patterns on Body Composition and Physical Fitness in Working Women (25-45 years).	Sharma Priti	Meet Chaudhary G., Chaudhari Yuvraj, Chaudhary Yamini	Agriculture & Allied Sciences
02	A Comparative Study To Evaluate The Plant Extracts With Synthetic Hormones For Their PGR Properties	Baldaniya Vipul, Vaghela Kalpesh, Sharma Deepak	Chaudhary Mehulkumar B., Chauhan Pushpendrasinh S., Chaudhari H. Vanjibhai	Agriculture & Allied Sciences
03	A Nutrient Packed Treat Mushroom Fortified Millet Cookies	Patel Jasmee, Baldaniya Vipul, Sharma Deepak	Patel Nrupa R., Patel Brilenta N., Mistry Stuti V.	Agriculture & Allied Sciences
04	Biopack: Sustainable And Biodegradable Alternative To Styrofoam	Patel Jasmee, Sharma Deepak, Baldaniya Vipul	Chaudhary Mehul D., Chavada Janak A., Virda Sumit S.	Agriculture & Allied Sciences
05	Menace to miracle: Water Hyacinth Management, value addition and product chain development	Baldaniya Vipul, Sharma Deepak, Patel Jasmee	Modi Taksh P., Patel Akshay S., Joshi Harshil D.	Agriculture & Allied Sciences
06	Weapon Detection Protocol Establishment For Micro green Cultivation In Different Growth Media	Vaghela Kalpesh, Vipul, Sharma Deepak	Prajapati Diya J. Ranva Monali J. Patel Kiranbhai C.	Agriculture & Allied Sciences
07	Aquatic feature-based Alzheimer disease detection using machine learning.	Patel H.A., Patel Raksha	Adarkhi Kalpana	Engineering & Technology

Winter Student Research Internship Programme

Sr. No.	Project Title	Name of supervisor	Name of Student	Broad Area of Research/Project
Winter Student Research Internship Programme (GUNI-WSRIP)				
08	Biomedical sleep inducer	Patel R. K., Patel H.A.	Divyanshi singh, Tadha Qamaruz zaman, Shah Jaydeep	Engineering & Technology
09	Cost Effective MPPT Solar Charge Controller	Desai Jigneshkumar	Patel Krutik M.	Engineering & Technology
10	Home Automation using IOT	Parmar Prakruti, Shah Digant	Patel Man, Patel Palash, Dodia Jeet	Engineering & Technology
11	Physiological signals detected by robotic machine.	Patel Raksha, Patel H.A.	Yadav Simran	Engineering & Technology
12	Plant Remote Monitoring With Biosensors	Shah Kaumil B.	Parmar Ashishbhai Sureshbhai, Patel Aman A.	Engineering & Technology
13	Renewable Energy Based Intelligent Traffic Control System.	Patel R. A.	Darji Arjun B, Chauhan Chirag B, Suthar Krupesh K	Engineering & Technology
14	Smart Battery Management System (BMS) For Sustainable Energy Storage	Shah Kaumil B.	Parmar Ashvinkumar J., Ninama Jayshriben M.	Engineering & Technology

Winter Student Research Internship Programme

Sr. No.	Project Title	Name of supervisor	Name of Student	Broad Area of Research/Project
Winter Student Research Internship Programme (GUNI-WSRIP)				
15	Smart Bumpershoot	Patel Rohit, Parmar Prakruti	Goswami Moksh, Raikar Niyati, Yadusreshtha Poliseti S	Engineering & Technology
16	Smart Irrigation System	Parmar Prakruti, Shah Digant	Gondaliya Jaymin, Desai Kathan , Patel Ayush	Engineering & Technology
17	Smart Plant Monitor	Parmar Prakruti, Shah Digant	Vekariya Harsh, Parikh Vishva, Panchal Krish	Engineering & Technology
18	Smart Street Light Management	Darji Dharmesh, Parmar Prakruti	Solanki Konarksinh, Shaikh Anik, Gajjar Aayush	Engineering & Technology
19	IOT Based Patient Health Monitoring System Using ESP32	Patel H. A., Patel R.K.	Miyani Aryan, Chaudhary Yash, Desai Aditya	Engineering & Technology
20	Application of expert system in Additive Manufacturing	Trivedi Achyut	Ladani Shaan	Engineering & Technology
21	Dual -Action Transdermal Patches for Simultaneous Management of Blood Pressure and Diabetes	Patel Raksha, Patel H.A.	Chauhan Gautama, Jani Dhairya	Engineering & Technology

Winter Student Research Internship Programme

Sr. No.	Project Title	Name of supervisor	Name of Student	Broad Area of Research/Project
Winter Student Research Internship Programme (GUNI-WSRIP)				
22	ESP32 Automatic Medication Dispatch and Reminder	Patel R. K., H.A. Patel	Chaudhari Archanakumari V., Patel Anjalikumari S., Patel Hetviben J."	Engineering & Technology
23	Ezpark –(Open Space Autonomous Parking Management System Using Drone Camera With Ai And ML)	Patel Devangi, Bhatt Pankti	Patel Rudra M., Ahuja Vanshika K.	Computer Applications
24	Help to develop mind set for Trading	Patel Bhavesh	Patel Dhey M., Patel Khushi, Patel Manushi	Computer Applications
25	IOT based solution for locust attack for smart farming.	Patel Kashyap C., Goswami Sachin A.	Bhavsar Akshat A., Ranpariya Prapti, Sheth Siddhi J.	Computer Applications
26	IOT-Based SOS System for Cardiovascular Heart Attack	Patel Kashyap C., Goswami Sachin A.	Ainani Sushil S., Sinroja Varun U., Purohit Dev R.	Computer Applications
27	Make scanning shop for digital shopping	Bhavesh Patel	Zinzuwadiya Het, Chaudhari Heli, Nayak Sakshi	Computer Applications
28	Measuring Strength and Weakness of Canals Using IOT	Patel Kashyap C., Goswami Sachin A.	Mendha Riddhi H., Shah Hir M., Patel Krish H.	Computer Applications

Winter Student Research Internship Programme

Sr. No.	Project Title	Name of supervisor	Name of Student	Broad Area of Research/Project
Winter Student Research Internship Programme (GUNI-WSRIP)				
29	Measuring Water Quality Issues in Ponds, Lakes and Rivers, with a Focus on Underwater Ecosystems Using IOT	Patel Kashyap C., Goswami Sachin A.	Gothi Hardik H., Thakkar Ansh K., Prajapati Vishal R.	Computer Applications
30	Object Detection Tracking And Following In Multicamera Surveillance System.	Patel Meghna, Raval Dhaval K., Bhatt Pankti	Patel Devarshi A., Chauhan Yash C.	Computer Applications
31	Real-Time Water Wastage Monitoring System	Raval Dhaval K., Patel Meghna	Soni Krutik H., Shah Nandish P., Prajapati Maitri R.	Computer Applications
32	Risks And Mitigation Strategies In IPO Investing	Patel Narendra I., Patel Meghna	Nayi Vivek J., Sirwani Prashant M.	Computer Applications
33	Text To Video Using Ai/ML/ Generative Adversarial Networks In English And Other Regional Languages.	Patel Meghna, Raval Dhaval K.	Nayi Vivek J., Patel Smeet P., Patel Joy D.	Computer Applications
34	Wi-Fi Gun Project For Long Range Wireless Signal Jammer	Patel Kashyap C., Goswami Sachin A.	Rathod Jalay D., Thakore Kavya A., Antriksh A.	Computer Applications
35	To evaluate the antimicrobial activity of essential oils and its application as medicinal aromatic candle.	Madhvi	Thakkar Rutvi	Sciences

RESEARCH PUBLICATION

Sr. No.	Name of the Author and Co-author(s)	Title of the Paper	Name of the Journal	ISSN No	Volume(Issue) Month/Yr. Page No.
Faculty of Engineering and Technology					
01	Patel Harshad	Thermal Radiation and Chemical Reaction Effects on Unsteady MHD Casson fluid flow past an exponentially accelerated plate	Application and Applied Mathematics: An International Journal	1932-9466	Vol.-18(01), Jul.-2023, P.-32-38
02	Kadiya Tejas R.	Multi –Classifying Model for Detecting Chest Diseases Pneumonla Covid 19 and Lung Cancer Using Deep learning	Journal of Biomechanical Science and Engineering	1880-9863	Vol.-18 (02), Jul.-2023, P.-723-32
03	Desai Jigneshkumar P.	Transmission line planning using global best artificial bee colony method	Electrical Engineering & Electromechanics	2309-3404	Vol.-01, Aug.-2023, P.-83-86
04	Sisodiya Neha	Scalable Big Earth Observation Data Mining Algorithms: A Review	Earth Science Informatics	1865-0481	Vol.-160(3), Aug.-2023, P.-1993-2016
05	Soni Bhavesh	New 8T SRAM cell with enhanced read SNM using FinFET technology	High Technology Letters	1006-6748	Vol.-02(08), Aug.-2023, P.-675-85
06	Desai Jigneshkumar P.	Transmission line planning using global best artificial bee colony method	Electrical Engineering & Electromechanics	2074-272X	Vol.-05, Aug.-2023, P.-75-83
07	Patel Vijay K.	The novel approach to spectral efficiency enhancement using massive MIMO in LoS	International Journal of Mobile Network Design and Innovation	1744-2850	Vol.-10(04), Aug.-2023, P.-202-11

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Sr. No.	Name of the Author and Co-author(s)	Title of the Paper	Name of the Journal	ISSN No	Volume(Issue) Month/Yr. Page No.
Faculty of Engineering and Technology					
08	Desai Jigneshkumar P.	Modified blinder-based out-of-step relays with renewable integration	Electrical	1432-0487	Vol.-106, Sep.-2023, P.- 493-507
09	Patel Bhaveshkumar P.	Analyzing stress concentration factor in finite plate with different polygonal discontinuities under uniaxial compression using FEM	Journal Kejuruteraan (Journal of Engineering)	2289-7526	Vol.-35(05), Sep.-2023, P.-1033-42
10	Patel Pravesh, Solanki Paresh	Performance Evaluation of Nature-Inspired Metaheuristic Approaches for Single Document Text Summarization	International Journal on Recent and Innovation Trends in Computing and Communication	2321-8169	Vol.-12(01), Sep.-2023, P.-137-44
11	Patel Bhavesh, Patel Kalpesh, Trivedi Achyut	Expert System in AddiOve Manufacturing : A Review	YMER	0044-0477	Vol.-22(11), Nov.-2023, P.-383-88
12	Modi Ronak N., Patel Chandresh G.	A Review Study of Traffic Microsimulation Car Following Models and Driver Behaviour's Parameters	Journal of Transportation Systems,	----	Vol.-08(03), Dec.-2023, P.-32-40
13	Patel Heena	Designing of an expert system for the predictioo	YMER (International Journal)	0044-0477	Vol.-22(12), Dec.-2023, P.-177-82
14	Patel Bhavesh P.	To Examine the Performance and Emission Studies of Neem Oil Bio-Diesel Blending with VCR Engine	Tuijin Jishu/Journal of Propulsion Technology	1001-4055	Vol.-44(06), Dec.-2023, P.-1625-42

RESEARCH PUBLICATION

Sr. No.	Name of the Author and Co-author(s)	Title of the Paper	Name of the Journal	ISSN No	Volume(Issue) Month/Yr. Page No.
Faculty of Engineering and Technology					
15	Patel Vijay, Patel Rajnikant	Parametric Optimization of Horizontal Centrifugal Casting of Spheroidal Graphite Cast Iron	Journal of Technology	1432-0487	Vol.-11(11), Dec.-2023, P.-897-910
16	Patel Aniket, Amin Kiran	Modified EPPXGBOOST for Effective Data Stream Mining in Cloud	International Journal on Recent and Innovation Trends in Computing and Communication	2321-8169	Vol.-11(11), Dec.-2023, P.-915-21
17	Patel Bhavesh, Patel Kalpesh, Trivedi Achyut	A Critical Review on Investigation of Process Parameters Using Composite Materials in Fused Filament Fabrication Technique	Journal of Basic Science	1006-8341	Vol.-23(12), Dec.-2023, P.-227-35
18	Desai Jigneshkumar P.	Microgrid Harmonic-Restrained Dual Slope Differential Protection	Journal of The Institution of Engineers (India): Series B	2250-2106	Vol.-105(01) Jan.-2024, P.-297-308
19	Dixit Sheetal Kumar, Jain Rahul	Impact of 5G Wireless Technologies on Cloud Computing and Internet of Things (IOT)	Advances of Robotic Technology (ART)	1600-0107	Vol.-02(02), Jan.-2024, P.-102-110
20	Jain Rahul, Vanzara Rakesh, Sarvakar Ketan	The Rise of AI and ML in Financial Technology: An In-depth Study of Trends and Challenges	Lecture Notes in Electrical Engineering: Proceedings of the 6th International Conference on Communications and Cyber Physical Engineering	978-981-99-7136-7	Vol.-1096, Feb.-2024, P.-915-921
21	Patel Nikunj	Time Series Forecasting Electric Vehicle Sales Market of India	Indian Journal of Natural Sciences	0976-0997	Vol.-14(82), Feb.-2024 P.-68945-953

RESEARCH PUBLICATION

Sr. No.	Name of the Author and Co-author(s)	Title of the Paper	Name of the Journal	ISSN No	Volume(Issue) Month/Yr. Page No.
Faculty of Engineering and Technology					
22	Patel Harshad, Nanda Gopal	Utilization of Caputo Fractional Derivational Derivative in MHD Nanofluid Flow with Soret and Thermal Radiation Effects	Applications and Applied Mathematics: An International Journal (AAM) (WOS Index)	1932-9466	Vol.-19 (03), Mar.-2024, P.-81-89
23	Desai Jigneshkumar P., Purohit K.	A Study with Simulation Implementation of Field Failure Protection on Synchronous Generator	Transactions of the Indian National Academy of Engineering	2662-5415	Vol.- 9(02), Apr.-2024, P.-493-500
24	Patel H.A., Patel Raksha, Adharkh Kalpanai	A Comprehensive review of advancement in spect based approach for Alzheimer disease detection in india	International Research Journal on Advance Engineering and Management	2584-2854	Vol.-02(04), Apr.-2024, P.-1039-47
25	Patel Bhaveshkumar, Patel Kalpesh, Trivedi Achyut	Investigation on effect of process parameters on FDM fabricated specimen using natural composite feedstock material	Journal of Engineering and Technology Management	1879-1719	Vol.-72 , Apr.-2024, P.-1039-47
26	Darji Pinesh, Sarvakar Ketan, Patel Bhavesh	Bee vs Wasp Classification Using Advanced Deep Learning Techniques: CNN, VGG16	International Journal of Intelligent Systems and Applications in Engineering (IJISAE)	2147-6799	Vol.-12(04), Jun.-2024, P.-878-84
27	Mistry Aayushi, Patel Raksha	A Systematic Case Study on Correlation between Cardiac Arrhythmia and Breathing Disorders in Patient with Obstructive Sleep Apnea	International Journal of All Research Education and Scientific Methods	2455-6211	Vol.-12 (6), Jun.-2024, P.-961-68
28	Patel Romilkumar, Patel Vikramkumar B.	Scheffler Reflector Based Solar Cooking System With Dual Sensible Heat Storage Material For Night Cooking Application: An Experimental Investigation	International Journal of Design Engineering (Inderscience Publisher)	138944	Vol.-13(01), Jun.-2024, P.-33-49

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Sr. No.	Name of the Author and Co-author(s)	Title of the Paper	Name of the Journal	ISSN No	Volume(Issue) Month/Yr. Page No.
Faculty of Engineering and Technology					
29	Darji Ajay	Critical Analysis And Traumatic Effect Of Manju Kapur's Custody	Soham And International Multidisciplinary Peer Reviewed Research Journal(SIMRJ)	2350-0697	Vol.-40(01), Jun.-2024, P.0-5-10
30	Patel Nilesh	Thermo-Diffusion Effects On Mhd Casson Blood Flow In An Inclined Muti-Stenosed Artery	Journal of Thermal Engineering	2148-7847	Vol.-40(01), Jun.-2024, P.-90-100
31	Patel Raksha, Mankodia Anand	Comparison of supervised machine learning methods for prostate cancer predication	Proceedings on Smart and Sustainable Developments in Engineering and Technology AIP Conf. Proc	1551-7616	Vol.-1, Jul.-2024, P.-1-8
32	Andharia Pritesh	Switching of vertex on some graphs with geometric mean 3-Equitable labeling.	Turkic world mathematical society journal of applied and engineering mathematic.	2587-1013	Vol.-14 (3), Jul.-2024, P.-957-65

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01	Patel Ravish, Desa Rashesh, Patel Amit, Prajapati B. G., & et al.	Burn assessment: A critical review on care, advances in burn healing and pre-clinical animal studies	Journal of Research in Pharmacy	2630-6344	Vol.-27(04), Jul.-2023, P.-1577-93
02	Kumar Akash, Yadav Sangeeta, Pramanik Jhilmam, Prajapati B. G., & et al.	Chitosan-Based Composites: Development and Perspective in Food Preservation and Biomedical Applications	Polymers	2073-4360	Vol.-15(14), Jul.-2023, P.-01-22
03	Mohite Popat, Rahayu Pudji, Mun Shubham, Prajapati B. G., & et al.	Chitosan-Based Hydrogel in the Management of Dermal Infections: A Review	Gels	2310-2861	Vol.-09(07), Jul.-2023, P.-594-602
04	Mukherjee S., Karati Dipanjan, Singh Sudarshan, Prajapati B. G., & et al.	Chitosan-based Nanomedicine in the Management of Age-related Macular Degeneration: A Review	Current Nanomedicine	2468-1881	Vol.-14(03), Jul.-2023, P.-01-15
05	Shah Shailvi, Patel Amit A., Prajapati B. G., Alexander Amit, & et al.	Multifaceted nanolipidic carriers: a modish stratagem accentuating nose-to-brain drug delivery	Journal of Nanoparticle Research	1388-0764	Vol.-25(07), Jul.- 2023, P.-01-34
06	Mohite Popat, Singh Sudarshan, Pawar Anil, Prajapati B. G., & et al.	Lipid-based oral formulation in capsules to improve the delivery of poorly water-soluble drugs	Frontiers in Drug Delivery	2674-0850	Vol.-03, Aug.-2023, P.-01-20
07	Patel Geeta, Chandwani Aanjali	Novel Mucoadhesivebigel of triamcinolone acetonide for the treatment of recurrent aphthous stomatitis	High Technology Letters	1006-6746	Vol.-29(08), Aug.- 2023, P.-747-764

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08	Kapoor Devesh U., Gaur Mansi, Parihar Akshay, Prajapati B. G., & et al.	Phosphatidylcholine (PCL) fortified nano-phytopharmaceuticals for improvement of therapeutic efficacy	EXCLI Journal	1611-2156	Vol.-22, Aug.-2023, P.-880-903
09	Bhattacharya Sankha, Prajapati B. G., Ali Nemat, Mohany Mohamed, & et al.	Therapeutic Potential of Methotrexate-Loaded Superparamagnetic Iron Oxide Nanoparticles Coated with	ACS Omega	2470-1343	Vol.-08(01), Aug.-2023, P.-27634-649
10	Pramanik J., Kumar A., Prajapati B. G.	A review on flaxseeds: Nutritional profile, health benefits, value added products, and toxicity	eFood	2666-3066	Vol.-04(05), Sep.-2023, P.-01-15
11	Vyas Jigar, Shah Usha, Singh Sudarshan, Prajapati B. G., & et al.	Biomaterials based additive manufacturing for customized bioengineering in management of otolaryngology: a comprehensive review	Frontiers in Bioengineering and Biotechnology	2296-4185	Vol.-11(09), Sep.-2023, P.-1234340-351
12	Patel Bhoomi, Patel Satish	Chromatographic separation to determine doxycycline monohydrate and ornidazole	SSC Plus	2573-1815	Vol.-06(09), Sep.-2023, P.-01-12
13	Jasania M. H., ModhP. G., Patel L. J.	Discovery of Novel Substituted N-Methylpyrazole Scaffolds as MmpL3 Inhibitors	Russian Journal of General Chemistry	1070-3632	Vol.-93(09), Sep.-2023, P.-2348-59
14	Singh Sudarshan, Chittasupho Chuda, Prajapati B. G., Chande A. Singh	Editorial-Biodegradable polymeric materials in tissue engineering and their application in drug delivery	Frontiers in Bioengineering and Biotechnology	2296-4185	Vol.-11(09), Sep.-2023, P.-1296119-28

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15	Basu Biswajit , Prajapati B. G., Dutta Ayon, Paliwal Himanshu	Medical Application of Liposomes	Journal of Exploratory Research in Pharmacology	2572-5505	Vol.-08(03), Sep.-2023, P-01-10
16	Bhattacharya Sankha, Prajapati B. G., Singh Sudarshan, Anjum Md Meraj	Nanoparticles drug delivery for 5-aminolevulinic acid (5-ALA) in photodynamic therapy (PDT) for multiple cancer treatment: a critical review on biosynthesis, detection and therapeutic application	Journal of Cancer Research and Clinical Oncology	0171-5216	Vol.-149(12), Sep.-2023, P-17607-634
17	Sivamaruthi B. S., Raghani Neha, Chorawala Mehul, Prajapati B. G., & et al.	NF-kB pathway and its inhibitors: A promising frontier in the management of alzheimer's disease	Biomedicines	2227-9059	Vol.-11(09), Sep.-2023, P-2587-594
18	Parihar A., Prajapati B. G., Paliwal H., Shukla M., & et al.	Advanced pulmonary drug delivery formulations for the treatment of cystic fibrosis	Drug Discovery Today	1878-5832	Vol.-28(10), Oct.-2023, P-01-11
19	Mori Dhaval, Dudhat Kiran, Soniwala Moinuddine, Prajapati B. G., & et al.	A review on stabilization mechanism of amorphous form based drug delivery system	Materials Today Communications	2352-4928	Vol.-37, Oct.-2023, P.01-14
20	Parihar Akshay, Prajapati B. G.	Response surface methodology for an improved nanoemulsion of ivacaftor & its optimization for solubility and stability	Pharmacophore	2229-5402	Vol.-04(05), Oct.-2023, P-01-08
21	Mohite Popat, Joshi Anjali, Singh Sudarshan, Prajapati B. G.	Solubility enhancement of fexofenadine using selfnano emulsifying drug delivery system for improved biomimetic attributes	Annales Pharmaceutiques Françaises	0003-4509	Vol.-79, Oct.-2023, P.01-05

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22	Kapoor Devesh, Chilkapalli Shirisha C., Prajapati B. G., Rodrigues Paul, & et al.	The Astonishing Accomplishment of Biological Drug Delivery using Lipid Nanoparticles: An Ubiquitous Review	Current Pharmaceutical Biotechnology	1873-4316	Vol.-24(10), Oct.-2023, P.-01-17
23	Varia Umang, Gol Varundev, Prajapati B. G.	Development and optimization of mouth-dissolving strips of L-methyl folate: A modern approach for patient compliance	IP International Journal of Comprehensive and Advanced Pharmacology	2456-9542	Vol.-08(03), Nov.-2023, P.-171-183
24	Raghani Neha R., Chorawala Mehul R., Prajapati B. G.	Gut fungal, friends or foes? Exploring the role of mycobiome in pancreatic cancer.	IP International Journal of Comprehensive and Advanced Pharmacology	2456-9542	Vol.-08(03), Nov.-2023, P.134-137
25	Gupta Pawan, Pancholi S. S., Das Prasanta	In Vitro Drug Release Testing Method For Nepafenac Ophthalmic Suspension	Journal of Pharmaceutical Sciences	1520-6017	Vol.-112(11), Nov.-2023, P.-01-07
26	Patel Priya, Pal Rohit, Butani Krishna, Prajapati B. G., & et al.	Nanomedicine fortified cosmeceutical serums for the mitigation of psoriasis and acne	Nanomedecine	1743-5889	Vol.-18(24), Nov.-2023, P.-01-25
27	Salave Sagar, Patel Pranav, Desai Nimeet, Prajapati B. G., & et al.	Recent advances in dosage form design for the elderly: a review	Expert Opinion on Drug Delivery	1742-5247	Vol.-20(11), Nov.-2023, P.-1553-71
28	Singh S. Ankul, Vellapandian Chitra, Shah Disha D., Prajapati B. G., & et al.	Valorised Calcium-Rich Biomass from Fish Waste and Eggshells in the Fabrication of Antibacterial Scaffold for Wound Healing Applications: A Review	Waste and Biomass Valorization	1877-265X	Vol.-14(11), Nov.-2023, P.-01-25

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29	Suresh Swathi, Singh Ankul S, Rushendran Rapuru, Prajapati B. G., & et al.	Alzheimer's disease: the role of extrinsic factors in its development, an investigation of the environmental enigma	Frontiers in Neurology	1664-2295	Vol.-14, Dec.-2023, P-01-18
30	Sudarshan Singh , Prajapati B. G., Kapoor Devesh U., Sharma Pratishtha	Amorphization of Low Soluble Drug with Amino Acids to Improve Its Therapeutic Efficacy: a State-of-Art-Review	AAPS Pharm Sci Tech	1530-9932	Vol.-24(08), Dec.-2023, P-01-33
31	Mishra Sudhanshu, Shah Harshil, Patel Arti, Prajapati B. G., & et al.	Gut fungal, friends or foes? Exploring the role of mycobiome in pancreatic cancer.	ACS Omega	2470-1343	Vol.-08(06), Dec.-2023, P-01-16
32	Dipanjan Karati, Swarupananda M., Sudarshan Singh, Prajapati B. G., & et al.	Biopolymer-based nano-formulations for mitigation of ocular infections: a review	Polymer Bulletin	1436-2449	Vol.-80(12), Dec.-2023, P-01-28
33	Shah Shailvi, Patel Amit A., Pandya Vidhi, Prajapati B. G., & et al.	Breaking barriers: Intranasal delivery of brexpiprazole-nanostructured lipid carriers targets the brain for effective schizophrenia treatment	Journal of Drug Delivery Science and Technology	1773-2247	Vol.-90, Dec.-2023, P-01-18
34	Patel S. A., Doshi J., Gajjar U.	Development and Validation of Spectrophotometric methods for simultaneousdetermination of azelnidipine and telmisartan in mixture	University Journal of Research	2455-1724	Vol.-05(01), Dec.-2023, P-34-38
35	Rodrigues Paul B., Prajapati B. G.	Dissolution Rate Enhancement of Dolutegravir Sodium Through Nanosuspension Technology Using 32 Factorial Design	IJPPR	2250-1029	Vol.-13(6), Dec.-2023, P-01-07

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36	Sahu Rakesh, Shah Kamal, Malviya Rishabha, Prajapati B. G., & et al.	E-Cigarettes and Associated Health Risks: An update on cancer potential	Advances in Respiratory Medicine	2543-6031	Vol.-91(06), Dec.-2023, P.-516-531
37	Sundaram B., Kapoor Devesh, Kukkar Rajiv, Prajapati B.G., & et al.	Mesoporous Silica Nanoparticles: Types, Synthesis, Role in the Treatment of Alzheimer's Disease, and other applications	Pharmaceutics	1999-4923	Vol.-15(12), Dec.-2023, P.-01-29
38	Kapoor Devesh U., Rahul Garg, Mansi Gaur, Prajapati B. G., & et al.	Polymeric nanoparticles approach and identification and characterization of novel biomarkers for colon cancer	Results in Chemistry	2211-7156	Vol.-06, Dec.-2023, P.-01-16
39	Mohite Popat, Patel Meenakshi, Puri Abhijeet, Prajapati B. G., & et al.	Revisiting the advancement with painless microneedles for the diagnosis and treatment of dermal infections: A review	Nanofabrication	2299-680X	Vol.-08, Dec.-2023, P.-01-27
40	Sathe Aamravi, Prajapati B. G., Bhattacharya Sankha	Understanding the charismatic potential of nanotechnology to treat skin carcinoma	Medical Oncology	1357-0560	Vol.-35(11), Dec.-2023, P.-01-22
41	Kumar Akash, Pramanik Jhilmam, Batta Kajol, Prajapati B. G., & et al.	Applications of value-added natural dye fortified with biopolymer-based food packaging: sustainability through smart and sensible applications	International Journal of Food Science and Technology	09505423	Vol.-58, Jan.-2024, P.-01-13
42	Kendre Prakash N., Kayande Dhiraj R., Pote Ajinkya K. , Prajapati B. G., & et al.	Emerging Lipid-based Carriers for Systematic Utilization in the Pharmaceutical and Biomedical Sciences: A Review	Pharmaceutical Nanotechnology	2211-7393	Vol.-12, Jan.-2024, P.-01-20

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43	Shah Sunny, Chauhan Harshida, Madhu Hardik, Prajapati B. G., & et al.	Lipids Fortified Nano Phytopharmaceuticals: A Breakthrough Approach in Delivering Bio-actives for Improved Therapeutic Efficacy	Pharmaceutical Nanotechnology	2211-7393	Vol.-12, Jan.-2024, P-01-20
44	Kapoor Devesh, Patel Ravish, Gaur Mansi, Prajapati B. G., & et al.	Metallic and metal oxide nanoparticles in treating Pseudomonas aeruginosa infections	Journal of Drug Delivery Science and Technology	1773-2247	Vol.-91(1), Jan.-2024, P-01-17
45	Shaikh Rehanoddin, Bhattacharya Shankha Prajapati B. G.	Microsatellite instability: A potential game-changer in colorectal cancer diagnosis and treatment	Results in Chemistry	2211-7156	Vol.-07, Jan.-2024, P-01-15
46	Kapoor Devesh U., Sharma Deepak, Gaur Mansi, Prajapati B. G., & et al.	Overcoming Solubility Challenges: Self-emulsifying Systems for Enhancing the Delivery of Poorly Water-Soluble Antiviral Drugs	Pharmaceutical Nanotechnology	2211-7393	Vol.-12, Jan.-2024, P-01-16
47	Vyas Jigar, Singh Sudarshan, Shah Isha, Prajapati B. G.	Potential Applications and Additive Manufacturing Technology-Based Considerations of Mesoporous Silica: A Review	AAPS Pharm SciTech	1530-9932	Vol.-25(01), Jan.-2024, P-01-27
48	Kumar Akash, Goyal Nandani, Pramanik Jhilmam, Prajapati B. G., & et al.	Probiotics as an Adjunct Approach to the Prevention and Treatment of Colon Cancer: A Review	Current Nutrition & Food Science	1573-4013	Vol.-20(01), Jan.-2024, P-01-14
49	Sharma Rishav, Kumar Suraj, Malviya Rishabha, Prajapati B. G.,& et al.	Recent advances in biopolymer-based mucoadhesive drug delivery systems for oral application	Journal of Drug Delivery Science and Technology	1773-2247	Vol.-91(01), Jan.-2024, P-01-18

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50	Rakesh Sahu, Shah Kamal, Malviya Rishabh, Prajapati B. G., & et al.	Recent advancement in pyrrolidine moiety for the management of cancer: A review	Results in Chemistry	2211-7156	Vol.-07, Jan.-2024, P-01-39
51	Raghani Neha R., Chorawala Mehul R., Mahadik Mayuresh, Prajapati B. G., & et al.	Revolutionizing cancer treatment: comprehensive insights into immunotherapeutic strategies	Medical Oncology	1357-0560	Vol.-41(01) Jan.-2024, P- 01-20
52	Parihar Akshay, Prajapati Jigna B., Prajapati B. G., Trambadiya Binti, & et al.	Role of IOT in Healthcare: Applications, Security & Privacy Concerns	Intelligent Pharmacy	2949-866X	Vol.-2(01), Jan.-2024, P-01-28
53	Saikia Surovi, Postwala Humzah, Athilingam Vishnu P., Prajapati B. G., & et al.	Single Nucleotide Polymorphisms [SNPs] in the Shadows: Uncovering their Function in Non-Coding Region of Esophageal Cancer	Current Pharmaceutical Biotechnology	1873-4316	Vol.-25, Jan.-2024, P-01-23
54	Ramanishankar Aakash, Singh Ankul, Begum, Rukaiah F., Prajapati B. G., & et al.	Unleashing light's healing power: an overview of photobiomodulation for Alzheimer's treatment	Future Science OA	2056-5623	Vol.-10(01), Jan.-2024, P-01-13
55	Karati Dipanjan, Swarupananda Mukherjee, Prajapati B. G., & et al.	Unveiling Spanlastics as a Novel Carrier for Drug Delivery: A Review	Pharmaceutical Nanotechnology	2211-7393	Vol.-12, Jan.-2024, P-01-10
56	Kapoor Devesh, Chilkapalli Shirisha C., Prajapati B. G., Rodrigues Paul	The Astonishing Accomplishment of Biological Drug Delivery using Lipid Nanoparticles: An Ubiquitous Review	Current Pharmaceutical Biotechnology	1873-4316	Vol.-25, Jan.-2024, P-01-17

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57	Kapoor Devesh U., Kukkar Rajiv R., Gaur Mansi, Prajapati B. G., & et al.	The Potential of Quality Target Product Profile in the Optimization of Nanoemulsions	Current Nanomedicine	2468-1881	Vol.-14(03), Jan.-Mar.-2024, P-01-14
58	Sakore Preeti, Bhattacharya Sankha , Belemkar Sateesh, Prajapati B. G., & et al.	The theranostic potential of green nanotechnology-enabled gold nanoparticles in cancer: A paradigm shift on diagnosis and treatment approaches	Results in Chemistry	2211-7156	Vol.-07, Jan.-2024, P-01-11
59	Begum Rukaiah Fatma, Singh Sudarshan, Prajapati B.G., Sumithra M., & et al.	Advanced Targeted Drug Delivery of Bioactive Agents Fortified with Graft Chitosan in Management of Cancer: A Review	Current Medicinal Chemistry	1875-533X	Vol.-31(42), Feb.-2024, P-01-31
60	Prajapati Jigna B., Kumar Ashwini, Singh Surdarshan, Prajapati B. G., & et al.	Artificial intelligence-assisted generative pretrained transformers for applications of ChatGPT in higher education among graduates	SN Social Sciences	2662-9283	Vol.-04(02), Feb.-2024, P-01-24
61	Mohite Popat, Puri Abhijeet , Pandhare Ramdas, Prajapati B. G., & et al.	Current Trends in the Biomarker's Discovery for the Treatment and Management of Colorectal Cancer: A Comprehensive Review	Current Medicinal Chemistry	0929-8673	Vol.-31, Feb.-2024, P-01-18
62	Singh Ankul S., Ansari Mohd Nazam, Elossaily Gehan M., Prajapati B. G., & et al.	Investigating the Potential Impact of Air Pollution on Alzheimer's Disease and the Utility of Multidimensional Imaging for Early Detection	ACS Omega	2470-1343	Vol.-09(08), Feb.-2024, P-01-17
63	Bhirud Darshan, Agrawal Gyan, Shah Harshil, Prajapati B. G., & et al.	Nitrosamine Impurities in Pharmaceuticals: An Empirical Review of their Detection, Mechanisms, and Regulatory Approaches	Current Topics in Medicinal Chemistry	1873-4294	Vol.-24, Feb.-2024, P-01-20

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64	Kumar Akash , Sivamaruthi B. S., Dey Swarnima , Prajapati B. G., & et al.	Probiotics as modulators of gut-brain axis for cognitive development	Frontier in Pharmacology	1663-9812	Vol-15(02), Feb.-2024, P-01-08
65	Bhattacharya Sankha , Belemkar Sateesh, Prajapati B. G., & et al.	The Application of Graphene Oxide Nanoarchitectures in the Treatment of Cancer: Phototherapy, Immunotherapy, and the Development of Vaccines	Current Medicinal Chemistry	0929-8673	Vol.-31, Feb.-2024, P-01-20
66	Junaid Tantray, Patel Akhilesh, Prajapati B. G., Sourabh Kosey, & et al.	The Use of Lipid-based Nanocarriers to Improve Ovarian Cancer Treatment: An Overview of Recent Developments	Current Pharmaceutical Biotechnology	1873-4316	Vol.-25, Feb.-2024, P-01-18
67	Singh Aditya, Maheshwari Shubhrat, Yadav Jagat Pal, Prajapati B. G., & et al.	A Review on Tau Targeting Biomimetics Nano Formulations: Novel Approach for Targeting Alzheimer's Diseases	Central Nervous System Agents in Medicinal Chemistry	1875-6166	Vol.-24(03), Mar.-2024, P-01-10
68	Shah Disha, Dave Bhavarth, Charawal Mehul, Prajapati B. G., & et al.	An Insight on Microfluidic Organ-on-a-Chip Models for PM2.5-Induced Pulmonary Complications	ACS Omega	2470-1343	Vol.-09(12), Mar.-2024, P-13534-555
69	Patel Priya, Raval Mihir, Airao Vishal, Prajapati B. G., & et al.	Formulation of Folate Receptor-Targeted Silibinin-Loaded Inhalable Chitosan Nanoparticles by the QbD Approach for Lung Cancer Targeted Delivery	ACS Omega	2470-1343	Vol.-09(09), Mar.-2024, P-01-18
70	Deshmukh Rohitas, Singh Vaibhav, Harwansh Ranjit K., Prajapati B. G., & et al.	Emerging Trends of Nanomedicines in the Management of Prostate Cancer: Perspectives and Potential Applications	Pharmaceutics MDPI	1999-4923	Vol.-16(03), Mar.-2024, P-01-20

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71	Patel Priya, Garala Kevinkumar, Singh Sudarshan, Prajapati B. G., & et al.	Lipid-Based Nanoparticles in Delivering Bioactive Compounds for Improving Therapeutic Efficacy	Pharmaceuticals MDPI	1999-4923	Vol.-17(03), Mar.-2024, P-01-24
72	Deepali Nahar, Mohite Popat, Lonkar Ankita, Prajapati B. G., & et al.	An insight into new strategies and targets to combat antifungal resistance: A comprehensive review	European Journal of Medicinal Chemistry Reports	2772-4174	Vol.-10, Apr.-2024, P-01-63
73	Kumar Akash, Goyal Nandani, Pramanik Jhilam, Prajapati B. G., & et al.	Feasting on the Future: Unveiling Edible Insects as a Sustainable Food with Enriched Health Benefits	Current Nutrition & Food Science	2212-3881	Vol.-21(02), Apr.-2024, P-01-11
74	Rushendran Rapuru, Begum Rukaiah Fatma, Singh A., Prajapati B. G., & et al.	Navigating neurological disorders: harnessing the power of natural compounds for innovative therapeutic breakthroughs	EXCLI Journal	1611-2156	Vol.-23, Apr.-2024, P.-534-569
75	Dalwadi Saloni, Thakkar Vaishali, Prajapati B. G., & et al.	Optimizing Neuroprotective Nano-structured Lipid Carriers for Transdermal Delivery through Artificial Neural Network	Pharmaceutical Nanotechnology	2211-7393	Vol.-12(05), Apr.-2024, P-01-15
76	Kapoor Devesh U., Garg Rahul, Gaur Mansi, Prajapati B. G., & et al.	Pectin hydrogels for controlled drug release: Recent developments and future prospects	Saudi Pharmaceutical Journal, 102002	2213-7475	Vol.-23(04), Apr.-2024, P-01-16
77	Kapoor Devesh U., Garg Rahul, Gaur Mansi C., Prajapati B. G., & et al.	Pediatric drug delivery challenges: Enhancing compliance through age-appropriate formulations and safety measures	Journal of Drug Delivery Science and Technology	1773-2247	Vol.-96(01), Apr.-2024, P-294-303

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78	Maheshwari Shubhrat, Singh Aditya, Wasim Rufaida, Prajapati B. G., & et al.	Revealing the Potential of Mucoadhesive Ocular Nanoparticles for Enhanced Drug Delivery	Current Nanomedicine	2468-1881	Vol.-21(02), Apr.-2024, P-01-13
79	Soutoa Eliana B., Blanco-Llameroa C., Krambeckc Karolline, Prajapati B. G., & et al.	Regulatory Insights into Nanomedicine and Gene Vaccine Innovation: Safety Assessment, Challenges, and Regulatory Perspectives	Acta Biomaterialia	2211-7385	Vol.-180, May-2024, P-01-17
80	Kumar Akash, Pramanik Jhिलam, Batta Kajol, Prajapati B. G., & et al.	Applications of value-added natural dye fortified with biopolymer-based food packaging: sustainability through smart and sensible applications	International Journal of Food Science and Technology	09505423	Vol-58, Jun.-2024, P-01-13

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01	Patel Meghna, Patel Ronak, Parikh Satyen	Fingerprint Image Enhancement Using A Composite Algorithm Gaussian Mask And Sobel Convolution	International Journal Of Advances In Soft Computing And Its Applications (IJASCA)	2074-8523	Vol.-15(2), Jul.-2023, P.-278-288
02	Suthar Falguni, Patel Bhavesh	Framework To Evaluate & Improve Educational Processes In Indian Schools & Universities Using Machine Learning	Organization Development Journal	0889-6402	Vol.-11(10), Jul.-2023, P.-137-143
03	Chauhan Jigneshkumar, Parikh Satyen, Patel Ajay	LCTIOT: Lightweight Encryption Algorithm for Secure Internet Of Things	Anvesak A Bi-Annual Journal	0378-4568	Vol.-53(9), Jul.-2023, P.-278-289
04	Chaubey Nirbhay	Towards A Dedicated Social Media And Groupware for Effective Communication During The Nyiragongo Volcanic Crisis	Elsevier Procedia Computer Science Journal	1877-0509	Vol.-224(C), Oct.-2023, P.-443-449
05	Patel Hiral B.	Call Data Record Analysis Using Apriori Algorithm	Indian Journal Of Natural Sciences	0976-0997	Vol.-14(80), Oct.-2023, P.-62954-62960
06	Patel Hiral B.	The Future Of Quantum Computing And Its Potential Applications	Journal for Basic Sciences	1006-8341	Vol.-23(11), Nov.-2023, P.-513-519
07	Patel Asha, Patel Helly, Patel Bhavesh	Streamlined Data Preprocessing Techniques for Sentiment Analysis Of Social Media Data	Gis Science Journal	1869-9391	Vol.-10(12), Dec.-2023, P.-628-635

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08	Patel Chandrakant, Patel Sanjay, Padhya Kuldeep, Umarniya Vijay	Dieses Detection Of Plant With Machine Learning Supervised Approaches: Assessment	Journal for Basic Sciences	1006-8341	Vol.-23(12), Dec.-2023, P.-651-657
09	Patel Hiral B.	Impact Of 5G Wireless Technologies On Cloud Computing and Internet Of Things (IOT)	Advances Of Robotic Technology	2997-6197	Vol.-2(1), Jan.-2024, P.-01-07
10	Patel Savan, Patel Swati, Prajapati Jigna	Content Management System Selection: A Comprehensive Review Of Criteria, Methods, And Best Practices With Top Open Source CMS	Journal for Basic Sciences	1006-8341	Vol.-24(1), Jan.-2024, P.-205-214
11	Chavda Vishnuba, Patel Savan	Review On Boosting Online Advertising ROI: Using Machine Learning	International Journal Of Advanced Networking and Applications - IJANA	0975-0290	Vol.-15(4), Jan.-2024, P.-69-73
12	Chavda Vishnuba, Patel Meghna, Patel Savan	Review On Detecting Adfraud In Digital Marketing Using Machine Learning Techniques	International Journal of Advances in Electronics and Computer Science (IAECS)	2394-2835	Vol.-11(2), Feb.-2024, P.-94-98
13	Patel Renuka, Patel Swatil, Maniyar Prachi	Survey Of Iot-Based Smart Home Systems: Technologies, Applications And Challenges	International Journal of Creative Research Thoughts	2320-2882	Vol.-12(2), Feb.-2024, P.-130-136
14	Nirbhay Chaubey	Smaiot-Ferti: A Smart Cropland Monitoring and Optimal Fertigation Iot System	Springer International Journal of Information Technology (2024)	1877-0509	Vol.-16(3), Feb.-2024, P.-2253-261

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15	Joshi Ritesh	A Model To Automate The Development of Computer Science Curriculum Syllabi	International Journal of Intelligent Systems and Applications In Engineering	2511-2112	Vol.-12(21), Mar.-2024, P.-198-204
16	Patel Shital, Pancholi Pooja , Chaudhury Arpita	Performance Analysis And Evaluation of Clustering Algorithms Using WEKA	International Journal Of Scientific Research In Computer Science, Engineering And Information Technology	2456-3307	Vol.-10(2), Apr.-2024, P.-677-684
17	Padhya Bhargav, Dharwa Jyotindra	A Secure Health Monitoring Model For Prediction of Heart Disease Detection Using Machine Learning	ICTCS-2023	2367-3370	Vol.-05(1), Apr.-2024, P.-313-323
18	Gurjar Aruna, Parikh Satyen	Machine Learning-Powered Comparative Analysis of Autism Diagnosis Tools: Enhancing Effectiveness	Indian Journal of Natural Sciences	0976-0997	Vol.-15(83), Apr.-2024, P.- 72412-72420
19	Darji Dhara , Goswami Sachinkumar	The Comparative Study Of Python Libraries for Natural Language Processing (NLP)	International Journal of Scientific Research In Computer Science, Engineering And Information Technology	2456-3307	Vol.-10(2), Apr.-2024, P.- 499-512
20	Patel Sonal, Goswami Sachinkumar	A Comparative Study Of Supervised And Unsupervised Classification Techniques For Sentiment Analysis In IMDB	Journal Of Scholastic Engineering Science And Management (JSESM)	2583-3294	Vol.-3(5), May-2024, P.-01-13
21	Bhavsar Krupa, Patel Ajay, Patel Krima, Patel Ravi	Exploring Data Ownership In Web 2.0 And Web 3.0 With The Integration Of Blockchain Technology	Second International Conference, ASCIS 2023	1865-0929	Vol.-20(39), May-2024, P.-391-402

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22	Dave Jay	Towards Precise Water Quality Assessment: A Deep Learning Approach With Feature Selection In Smart Monitoring Systems	IJSRCSEIT	2456-3307	Vol.-10(4), Jun.-2024, P.-391-402
23	Patel Kashyap, Goswami Sachin, Dave Saurabh, Patel Ajaykumar	Crippling Connectivity : Unveiling The Network Disruption Potential Of Vehicular Rogue Access Points	International Journal Of Scientific Research In Computer Science, Engineering And Information Technology	2456-3307	Vol.-10(4), Jun.-2024, P.-241-245

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01	Jha Dhara B., Venkatasubramanian L., Bhale Tanmay Y., & Prashant Kumar	Case study on Bubbly Bee: Building Entrepreneurs	AIMS Journal of Management	2395-6852	Vol.-10(01), Jul.-2023, P.-244-252
02	Jha Dhara, Fleur Mario F., Annjaan Daash	Case study - Titan to Maple Tech Solutaion Journey of Entrepreneurs	AIMS Journal of Management	2395-685	Vol.-09(01), Jul.-2023, P.-194-202
03	Halvadia, Nirav	Consumer Buying Behaviour Towards Online Gold Jewellery with Special Reference to Women	NIU International Journal of Human Rights	2394-0298	Vol.-10(06), Jul.-2023, P.-11-21
04	Patel Jayesh, Pangarkar Aniruddha, Sampath K. Kumar	Drivers of eWOM engagement on social media for luxury consumers: Analysis, implications, and future research directions	Journal of Retailing and Consumer Services	0969-6989	Vol.-74(01), Sep.-2023, P.-01-14
05	Sharma Mahendra, Mitra Remi, Purohit Rajen	Role of Entrepreneurship Education Program Triggers and Perceived Social Support in Student's Entrepreneurship Intention Formation	NMIMS Management Review	0971-1023	Vol.-31(02), Oct.-2023, P.-109-119
06	Patel Jayesh, Vanani Sanjay, Dasani Vikrant, Sharma Mahendra	Does my school teach me entrepreneurship? School entrepreneurship curriculum and students' entrepreneurial intention: a serial mediation-moderation analysis	International Journal of Social Economics	0306-8293	Vol.-51(12), Apr.-2024, P.-24-38
07	Patel Jayesh, Trivedi Rohit, Malhotra Svablum, Jagani Khyati	Understanding underdog brand positioning effects among emerging market consumers: A moderated mediation approach	Journal of Product and Brand Management	1061-0421	Vol.-53(01), Jun.-2024, P.-51-62

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08	Halvadia Nirav, Bhatt Kedar, Shah Priyanka, Sharma Anil, Deshmukh Sachin	Study of adoption of ride-hailing services: Moderating role of consumer frugality and status consumption in collaborative consumption	Research in Transportation Business & Management	2210-5395	Vol.-54(01), Jun.-2024, P.-25-36

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01	Desai Vishv, Vora Manoj, Modi Krunal, & et al.	A Quenched Fluorescence-based Assay for Selective Detection of Nitroaromatic Compounds using Pyrene-Appended Oxacalix [4]arene Host	Chemistry Select	2365-6549	Vol.-8(28), Jul.-2023, P.-01-07
02	Desai Vishv, Modi Krunal, Panjwani Falak, & et al.	Design and Synthesis of an Efficient Fluorescent Probe based on Oxacalix [4] arene for the Selective Detection of Trinitrophenol (TNP) Explosives in Aqueous System	Journal of Fluorescence	1573-4994	Vol.-34(01) Jul.-2023, P.-1219-1228
03	Raval Maitri R., Parikh Amit K., Yeolekar Bijal M.	HIV-CM (cryptococcal meningitis) co-infection and control in immunocompromised individuals	European Chemical Bulletin	2063-5346	Vol.-12(07), Jul.-2023, P.-1463-1484
04	Prakash Rajni, Garg Amar Prakash, Arya Riteshkumar	Studies on Emergence of Mupirocin Resistance in Staphylococcus aureus	Anvesak	0378-4568	Vol.-53(03), Jul.-Dec.-2023, P.-237-246
05	Garg Ankit, Jasuja Nakuleshwar, Singhal Anshul, & et al.	A Review on Role of Oral Microflora in Humans	Indian Journal of Natural Sciences	0976-0997	Vol.-14(79), Aug.-2023, P.-60544-60548
06	Dave Kruti, Prajapati Daksha	Green Pesticide: Management of Tomato Disease from Plant Pathogen	European Chemical Bulletin	2063-5346	Vol.-12(08), Aug.-2023, P.-2714-2727
07	Prajapati Rajeshri, Rabari N.S.	Modelling Inter-Specific Competition Between One Prey and Two Predators	Advances and Applications in Mathematical Sciences	0974-6803	Vol.-22(10), Aug.-2023, P.-2091-2098

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09	Suthar Madhuri J., Bishnoi Prakashbhai V., Kumbhani Jasmin, & et al.	Ultrasound based synthesis of substituted 2-amino-4-phenyl-4h-benzo[g]chromene-3-carbonitrile by using morpholine as a catalyst	Heterocyclic Letters	2231-3087	Vol.-13(04), Aug.-Oct.-2023, P.-789-795
10	Patel Nihal, Modi Krunal, Parikh Jaymin, & et al.	Computational and experimental insights into the synthesis and sensing of Ytterbium(III) with a phthalimide-functionalized cyclotrimeratrylene ligand	Journal of the Iranian Chemical Society	1735-2428	Vol.-20(09), Sept.-2023, P.-2307-2318
11	Parmar Nirali, Bhatt Keyur	Exploring the Expanding Frontiers: The Promising Role of Supramolecules in Advancing Cancer and Infectious Disease Therapy	Oriental Journal of Chemistry	2231-5039	Vol.-39(05), Sept.-2023, P.-1093-1100
12	Ghumara Rizwan, Raijada Ankita, Patel Karnav, & et al.	Measurement, Correlation, and Thermodynamic Properties of the Solubility of Bisphenol Z (BPZ) in Nine Mono and (Tetrahydrofuran + 1-Propanol) Binary Solvents	Journal of Chemical and Engineering Data	0021-9568	Vol.-68, Sept.-2023, P.-2698-2712
13	Panchal Mansi, Bhatt Keyur	Oxocalix[4]arene Based "Turn-off Florescence Sensor" for Selective and Sensitive Screening of 4-Nitrotoluene: Insight from Spectrophotometry and Spectrofluorometry	Indian Journal of Science & Technology	0974-6846	Vol.-16(36), Sept.-2023, P.-2965-2972
14	Shah Disha A., Parikh Amit K.	Quantitative Analysis of Co-Current Imbibition Phenomenon with Heterogeneity and Gravitational Effects	Scope	1177-5653	Vol.-13(03), Sept.-2023, P.-872-882

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15	Patel Priyanka, Joshi Purvee, Patadiya Tarang, & et al.	Evaluation of Slope Correction Methods to Improve Surface Elevation Change Estimation over Antarctic Ice Sheet using SARAL/AltiKa	Journal of Geomatics	0976-1330	Vol.-17(02), Oct.-2023, P.-149-155
16	Sharma Aruna, Parikh Amit K.	Semi Analytic-Numerical Solution of Imbibition Phenomenon in Homogeneous Porous Medium Using Hybrid Differential Transform Finite Difference Method	Communications in Mathematics and Applications	0976-5905	Vol.-14(03), Oct.-2023, P.-1199-1213
17	Patel S.P., Patel S.A., Vaghani H.V., & et al.	A Facile Ultrasound-Promoted Green Synthesis of Modified 2-Oxochromane Derivatives and Their Antimicrobial Profile	Russian Journal of Organic Chemistry	1070-4280	Vol.-59(09), Nov.-2023, P.-1548-1554
18	Prajapati Rajeshri, Parikh Amit, Jha Pradeep	Exploring Novel Edge Connectivity in Graph Theory and its Impact on Eulerian Line Graphs	International Journal of Science and Research (IJSR)	2319-7064	Vol.-12(11), Nov.-2023, P.-1515-1519
19	Ushma Joshi, Mohhamad Faisal Ansari, Devayani Tiple	Plant growth-promoting attributes of Indian gooseberry (Phyllanthus embilica L.) endophytes	Advances in Bioresearch	0976-4585	Vol.-01(01), Nov.-2023, P.-285-297
20	Patel Nihal, Modi Krunal, Bhatt Keyur, & et al.	Propyl-phthalimide Cyclotricatechylene-Based Chemosensor for Sulfosulfuron Detection: Hybrid Computational and Experimental Approach	ACS Omega	2470-1343	Vol.- 08(44), Nov.-2023, P.- 41523-41536
21	Prajapati Dhaval, Karande Sucheta, Bhatt Shreyas	Sacred Groves in Banaskantha: Exploring Plant Diversity and Medicinal Uses for Sustainable Healthcare	International Journal for Innovative Engineering Research (IJIER)	2349-882X	Vol.-02(11), Nov.-2023, P.-01-10

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22	Bhola Ravibhai, Ghumara Rizwan, Patel Chirag, & et al.	Antibiotic Drug Solubility and Thermodynamics Profile in Binary (1,4-Dioxane, Acetonitrile, and Water) Solvents at Different Temperatures (T = 298.15–318.15 K)	Russian Journal of Physical Chemistry A	0036-0244	Vol.-97(1), Dec.-2023, P.-2915-2924
23	Patel Mrunali, Patel Priti, Pithawala Edwin	Antioxidant and Antibacterial Properties of bio-pigment from Beta vulgaris	Biosciences Biotechnology Research Asia	0973-1245	Vol.-20(04), Dec.-2023, P.-1327-1339
24	Raijada Ankita, Rathod Ajay, Ghumara Rizwan, & et al.	Density, Viscosity and Sound Speed of 4,4'- (Cyclohexane-1, 1-diyl) bis (2,6-dibromophenol) in 1,4-Dioxane, Ethyl Acetate and Tetrahydrofuran at Different Temperatures	Chemistry Africa	2522-5766	Vol.-06(06), Dec.-2023, P.-2969-2981
25	K. Flory, P. Priti., M. Rasheed A., & et al.	Impact of Temperature and Nutrition on Biomass and Phycobiliprotein of Desertifilum Salkalinema from Hot Water Spring	International Journal of Biology, Pharmacy and Allied Sciences	2277-4998	Vol.-12(12), Dec.-2023, P.- 583-597
26	Chavda Nikita R., Patel Priti H., Chaudhary Roshani K.	Isolation and Production of Cellulose from Bacteria Using Agro Waste	Biosciences Biotechnology Research Asia	0973-1245	Vol.-20(04), Dec.-2023, P.-1467-1479
27	Pandya Dipika, Chaudhari R.G., Zala D.B., & et al.	Pantoea: A Versatile bacterial Candidate of Agricultural Importance	Journal of Advanced Zoology	0253-7214	Vol.-44(02), Dec.-2023, P.-403–413
28	Patel Vishal, Patel Falguni, Shah Kamlesh	Physical characterization and Structure elucidation of Exopolysaccharide from marine halotolerant bacterium Enterobacter cloacae VHP-34	Industrial Biotechnology	1550-9087	Vol.-19(06), Dec.-2023, P.-326-336

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29	Shah Krisha, Parikh Amit K.	Differential transform method applied On groundwater infiltration Phenomenon in horizontal direction with External effect (input and output)	Revista investigacion operacional	0257-4306	Vol.-45(01), Jan.-2024, P.-25-33
30	Vyas Harsh T., Shah Tejas R., Ambavale Sagar K., & et al.	Effect of Carrier Imbalance on Conductivity of Double Layer Graphene System in Presence of Long and Short Range Scatterers	AIP conference proceedings	0094-243X	Vol.-2995(01), Jan.-2024, P.-01-04
31	Pomal Nandan C., Bhatt Keyur D., Patel Anilkumar S., & et al.	From catalysis to combat: calix[4]pyrrole-wreathed palladium nanoparticles as ambidextrous tools against cancer and tuberculosis	Applied nanoscience	2190-5509	Vol.-14(1), Jan.-2024, P.-161-176
32	Modi Kinjal, Modi Krunal, Bhatt Keyur, & et al.	Illuminating Bacterial Contamination in Water Sources: The Power of Fluorescence-Based Methods	Journal of Fluorescence	1573-4994	Vol.-34(01), Jan.-2024, P.-139-147
33	Patel Dhvani, Shah Hardik	Isolation and Screening of Polysaccharide Degrading Microbes from Various Natural Sources	Advances in Bioresearch	0976-4585	Vol.-15(01), Jan.-2024, P.-76-84
34	Kabra Pooja, Roghini R., Ghosh Somenath, & et al.	Recent Trends in Screening of Oral Cancer	International Journal of Pharma and Bio Science	0975-6299	Vol.-15(01), Jan.-2024, P.-72-87
35	Shah Tejas R., Ambavale Sagar K., Vyas Harsh T., & et al.	Tuning of surface roughness induced scattering rate of double layer graphene structure using different dielectric environments	AIP conference proceedings	0094-243X	Vol.-2995(1), Jan.-2024, P.-01-04

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36	Suthar Madhuri J., Kumbhani Jasmin H., Bhatt Keyur D., & et al	Ultrasound-assisted Synthesis and Characterization of 5-Carbonitrile-Functionalized tetrahydropyrimidine Derivatives with Evaluation of Their Antimicrobial Activity	Oriental journal of chemistry	0970-020X	Vol.-40(01), Jan.-2024, P.- 281-287
37	Singhal Anshul, Garg Ankit, Jasujav Nakuleshwar Dut, & et al.	Prevalance of oral microbial infections in human	Anvesak	0378-4568	Vol.-54(1), Jan.-Apr.-2024, P.-149-154
38	Patel Bhoomi N., Patel Priti, Patel Gayatri	Isolation and identification of Rhizospheric Actinomycetes with potential application for bio control of Black spot of Ricinus communis L.	Bulletin of Environment, Pharmacology and Life Sciences	2277-1808	Vol.-13(03), Feb.-2024, P.-70-77
39	Patel Dhvani, Madhvi, Shah Hardik	Purification and characterization of pectinase from Bacillus sp. and its application in fruit juice clarification	Bulletin of Environment, Pharmacology and Life Sciences	2277-1808	Vol.-13(03), Feb.-2024, P.-78-85
40	Patel Bhoomi N., Patel Priti, Patel Gayatri	Antagonistic Behavior of Streptomyces chartreuse against Pathogenic Bacteria in Ricinus communis L.	Biosciences biotechnology research asia	0973-1245	Vol.-21(01), March 2024, P.- 185-192
41	Chaudhary Roshani K., Patel Priti H., Chavda Nikita R., & et al.	Bacillus paralicheniformis (OQ202112) - Mediated biodiesel production using groundnut husk: A sustainable approach for bioenergy generation	Journal of Applied Biology & Biotechnology	2455-7005	Vol.-12(02), Mar.-2024, P.-91-99
42	Vyas Harsh T., Shah Tejas R., Patel Digish K., & et al.	Effect of Impurities and carrier concentration on conductivity of bilayer graphene double layer system in different dielectric environments	Modern Physics letters B	0217-9849	Vol.-38(28), Mar.-2024,

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43	Shah Manali N., Shah Devang D., Gajjar P.N., & et al.	Investigation of multiferroic properties of binary compounds barium titanium yttrium ferric oxide	Journal of Materials Science : Materials in Electronics	1573-482X	Vol.-35(642), Mar.-2024, P-01-15
44	Makwana Pragneshkumar R., Chauhan Jignesh P., Chauhan Rajendrakumar B., & et al.	Solution of nonlinear Burger's equation arising in longitudinal dispersion phenomena	Results in Control and Optimization	2666-7207	Vol.-14(01), Mar.-2024, P-01-09
45	Yadav Kunvar S., Patel Jahvi M., Patel Hani P. & et al.	Aberrant variations in land, oceanic, and atmospheric parameters precedent to earthquakes	Indian Society of Geomatics	0976-1330	Vol.-18(01), Apr.-2024, P-76-92
46	Prajapati Rajeshri, Parikh Amit, Jha Pradeep	Exploring Toeplitz, Circulant, and Hankel Matrices: Algebraic Structures and Field Properties with a Focus on Circulant Matrices	Educational Administration: Theory and Practice	2148-2403	Vol.-30(04), Apr.-2024, P-7181-7187
47	Yadav Kunvar S., Vadnathani Rakesh B., Bhoya Mangesh D., & et al.	Investigation into potential TEC changes due to 9 seismic tremors of 2021{2022}	Contributions to Geophysics and Geodesy	1338-0540	Vol.-54(01), Apr.-2024, P-01-22
48	Gupta Pawan Kumar, Pancholi Shyam Sunder, Das Prasanta	In Vitro drug release testing methods for nepafenac ophthalmic suspension	Journal of Pharmaceutical Sciences	0250-474X	Vol.-113(04), Apr.-2024, P-1061-067
49	Jha Pradeep, Prajapati Rajeshri, Parikh Amit	Revisiting assignment problem: A novel approach to optimality	International Journal of Statistics and Applied Mathematics	2456-1452	Vol.-9(03), Apr.-2024, P-23-26

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50	Buch Munish, Vaghani Hasit	Stability Indicating RP-UPLC Method for Impurity Profiling of Darunavir and Ritonavir in Fixed Dose Drug Combination Product	Indian Journal of Pharmaceutical Education and Research	0019-5464	Vol.-58(02), Apr.-Jun.-2024, P.-558-565
51	Rami Nehal, Kulkarni Bhushan, Chibber Sandesh	Phytochemical Analysis And In Silico Pharmacological Profiling Of Methanolic Extract From Annona Squamosa L. Seeds For Breast Cancer	Educational Administration: Theory and Practice	2148-2403	Vol.-30(05), May-2024, P.-8871-8883
52	Madhvi, Shah Hardik	Screening and molecular characterization of phytase producer from north Gujarat region	Journal of Applied Biology & Biotechnology	2347-212X	Vol.-12(03), May-Jun.-2024, P.-146-152
53	Shah Tejas R., Ambavale Sagar K., Patel Digish K., & et al.	Influence of dielectric environment on phasetransition temperature of MLG-MLG graphenedouble layer system	Intractions	1072-5520	Vol.-245(123), Jun.-2024, P.-01-07

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02	Patel Kiran J., Patel Kundan M., Patel Vipul B., Acharya Vishal A.	Consumers' digital wallet adoption: Integration of technology task fit and UTAUT	International Journal of Asian Business and Information Management	1947-9638	Vol.-15(01), Nov.-2023, P-01-23
03	Patel Kiran J.	Antecedents of individuals financial well-being-A systematic review and conceptual model	SAMVAD: SIBM Pune Research Journal	2249-1880	Vol.- 26(02), Dec.-2023, P-96-104
04	Gadhavi Dharmesh	Impact of managers coaching behavior on team Member performance: the mediating role of Leader member exchange	Jharkhand Journal of Development and Management Studies	9979-9994	Vol.-21(04), Dec.-2023, P-9979-994
05	Kaushik Usha, Singh Monika, Kumara Rashmi	Changing role of teachers in published in NEP: Case study of schools in Jharkhand	Social Work and Social Development	2229-6468	Vol.-22, Dec.-2023, P-33-59
06	Patel Kiran J., Mistri Khushbu	Antecedents of students' intention towards social entrepreneurship in gujarat ; extension of theory of planned behavior	Multidisciplinary, Scientific Work and Management Journal	1053-7899	Vol.-33(02), Dec.-2023, P-310-327
07	Patel Kiran J., Mistri Khushbu	Antecedents of students' intention towards social entrepreneurship in gujarat ; extension of theory of planned behavior	Multidisciplinary, Scientific Work and Management Journal	1053-7899	Vol.-33(02), Dec.-2023, P-310-327

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09	Patel Bhumika, Mistri Ankita, Dave Swati	Mobile wallets adoption by younger generation concerning north Gujarat	The Liberal Studies Journal	2455-9857	Vol-.8(03), Dec.-2023, P.-457-472
10	Dave Rudri, Kaushik Usha, Singh Monika	Integrating Information and communication technology (ICT) in classroom teaching for improving english pronunciation	The Liberal Studies Journal	2455-9857	Vol-.8(03), Dec.-2023, P.-361-388
11	Parekh Priyanka, Patel Kundan M.	Corporate governance in Commerce in India	International Journal of Education, Modern Management, Applied Science & Social Science (JEMMASS)	581-9925	Vol-.6(01), Jan.-Mar.-2024, P.-191-196
12	Parekh Payal M., Patel Kiran J.	Digital transformation in commerce education: Challenges and opportunities	International Journal of Education, Modern Management, Applied Science & Social Science (JEMMASS)	5081-9925	Vol-.6(01), Jan.-Mar.-2024, P.-175-181
13	Dave Rudri, Hajur Mohammadali G.	Laughing, loving, and clicking: the impact of animation, humour, celebrity endorsement and caring video content on gen z purchase intention	Educational Administration: Theory and Practice	2148-2403	Vol-.30(05), May-2024, P.-9749-756

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01	Patva Vivek, Makwana Malay	Architectural design concept and guidelines for floating structures for tackling sea level rise impacts on aquatic abodes GOA	International Research Journal of Engineering and Technology (IRJET)	2395-0056	Vol.-10(09), Sep.-2023, P.-679-683
02	Prajapat Mayurkumar, PatelFennyben, PatelRuby B., Chatwani Meera J.	Urbanization, Challenges And Planning With Special Reference To India: Implications And GOI Initiatives	African Journal of Biomedical Research (SCOPUS)	1300 4832, 2148 2403	Vol.-30(05), May-2024, P.-504-509

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01	Nageswaran Karpagavalli.	Assess the Level of Perceived Social Support among Nursing Students	Journal of Nursing Science and Practices	2249-4758	Vol.-01, Jan.-2024, P.-22-27
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Sr. No.	Patent Application Number	Name of the Inventor(s)	Title of the patent	Year of Award / publish of patent
01	6350946	Dave Saurabh Amrutlal., et al.	Microwave Sensor based Soil Analyser (UK Design)	2024
02	410419-001	Dave Saurabh Amrutlal., et al.	IOT based Breath Analyzer (Indian Design)	2024
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22	428846-001	Chauhan Jigneshkumar	AI Based Device For Software Checking	2024
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