BIRLA INSTITUTE OF TECHNOLOGY Mesra, Extn. Centre Lalpur (Ranchi City) Ranchi, Jharkhand-834001

(A Deemed to be University, u/s 3 of UGC Act, 1956)

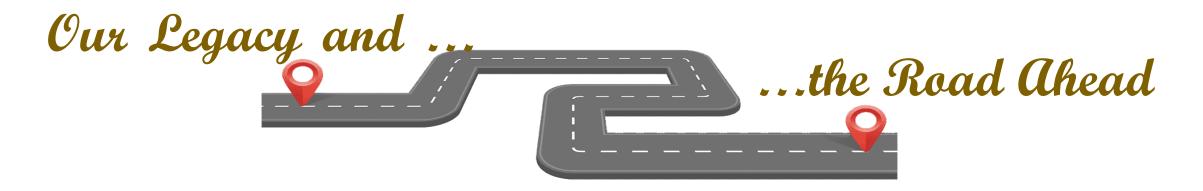
A Very Warm Welcome

to all!

Dr. (Mrs.) Vandana Bhattacharjee Director, Incharge

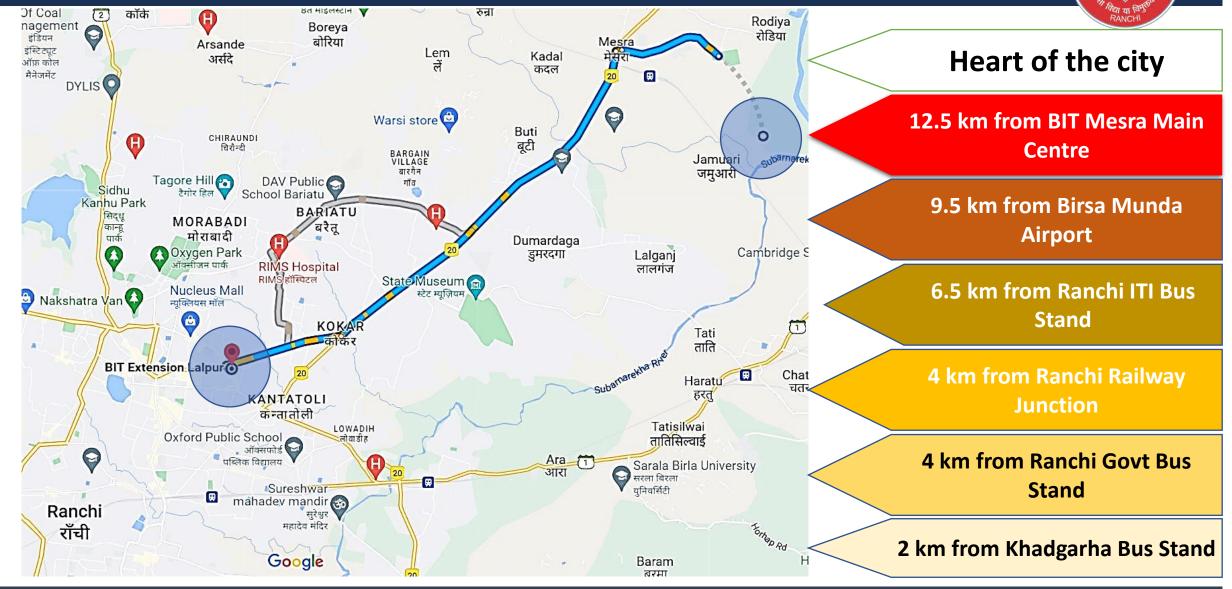
BITEC Lalpur, Ranchi





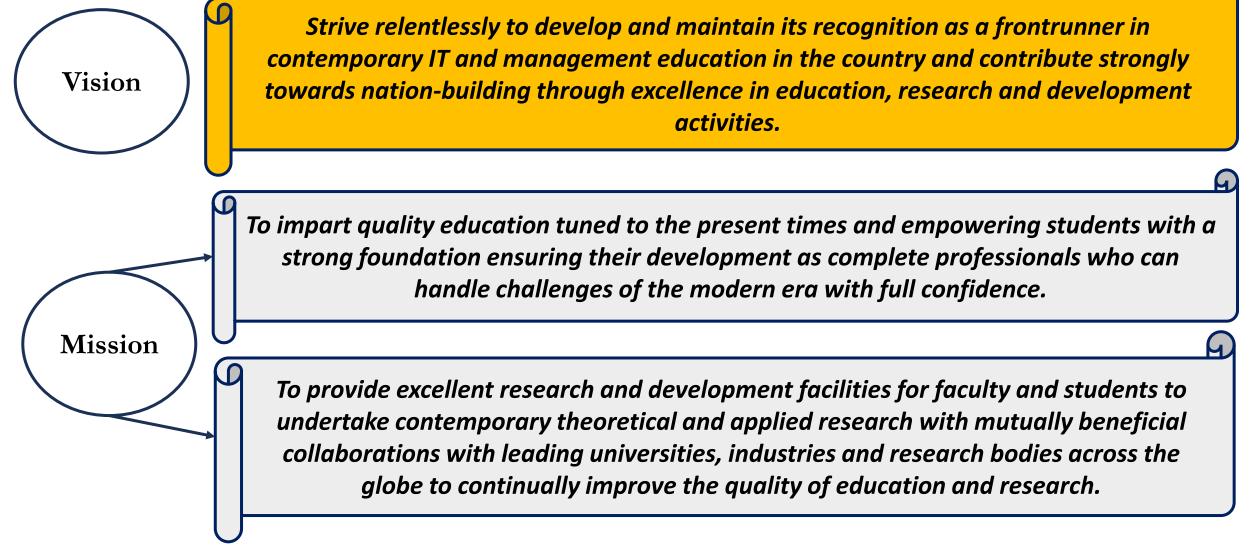
Presented By: Dr. (Mrs.) Vandana Bhattacharjee Director, BIT Extension Centre Lalpur

Location of BITEC Lalpur, Ranchi

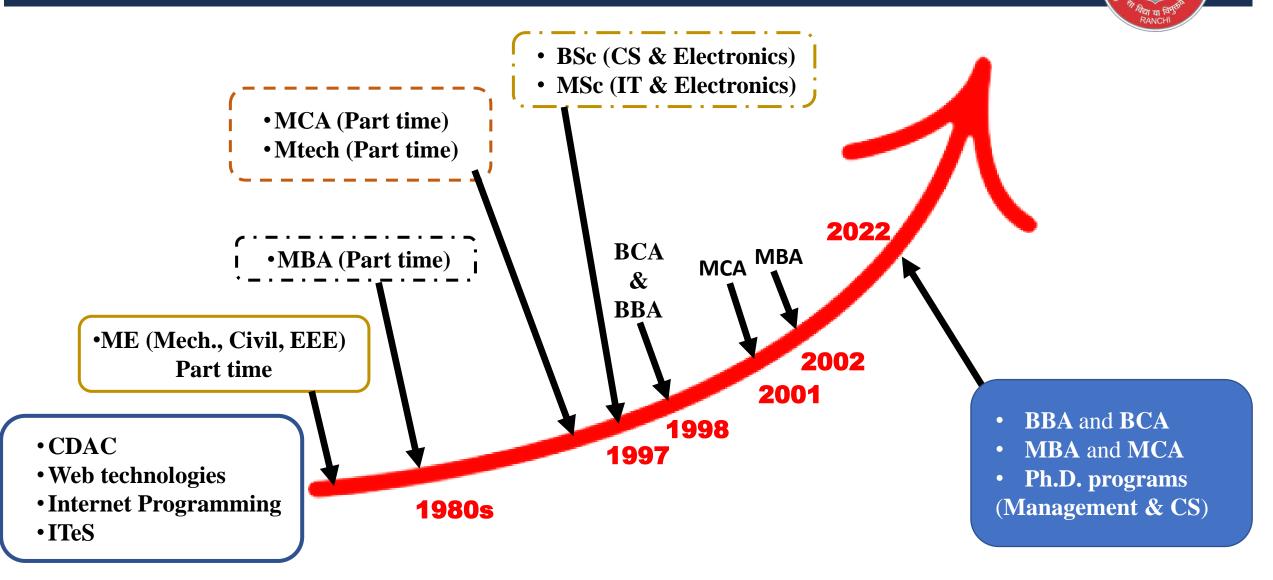


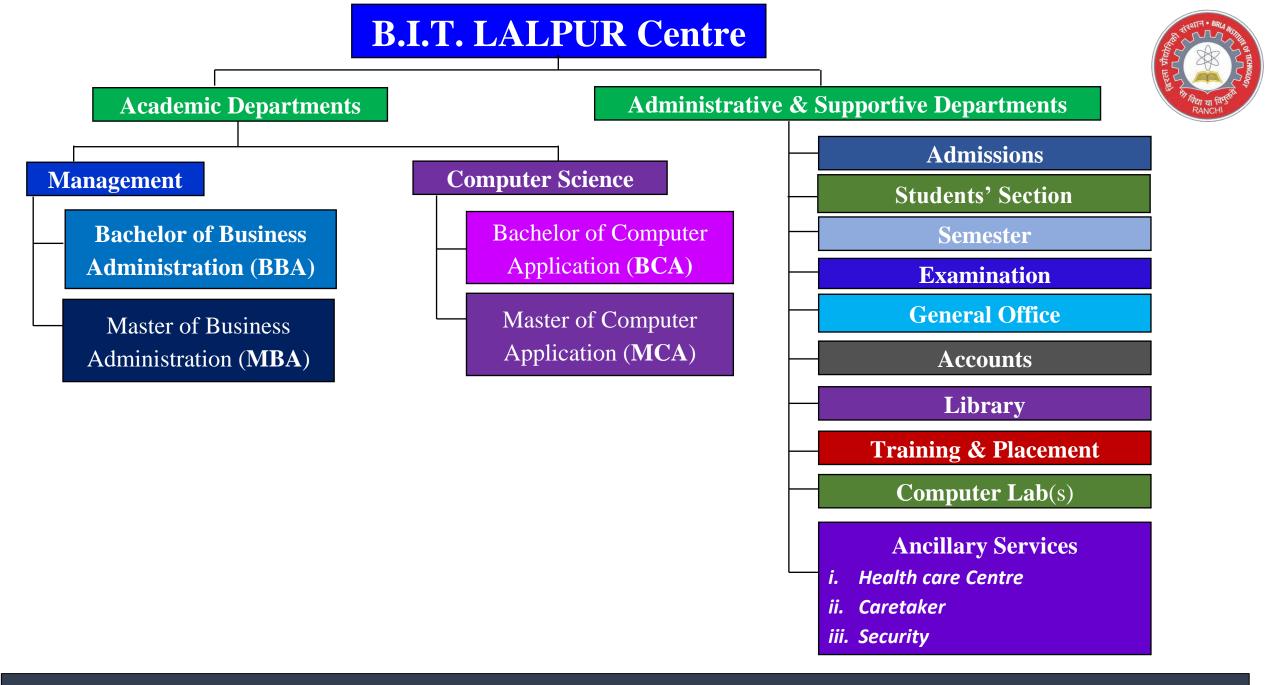
Mission & Vision of the Centre





Inception of BITEC Lalpur, Ranchi





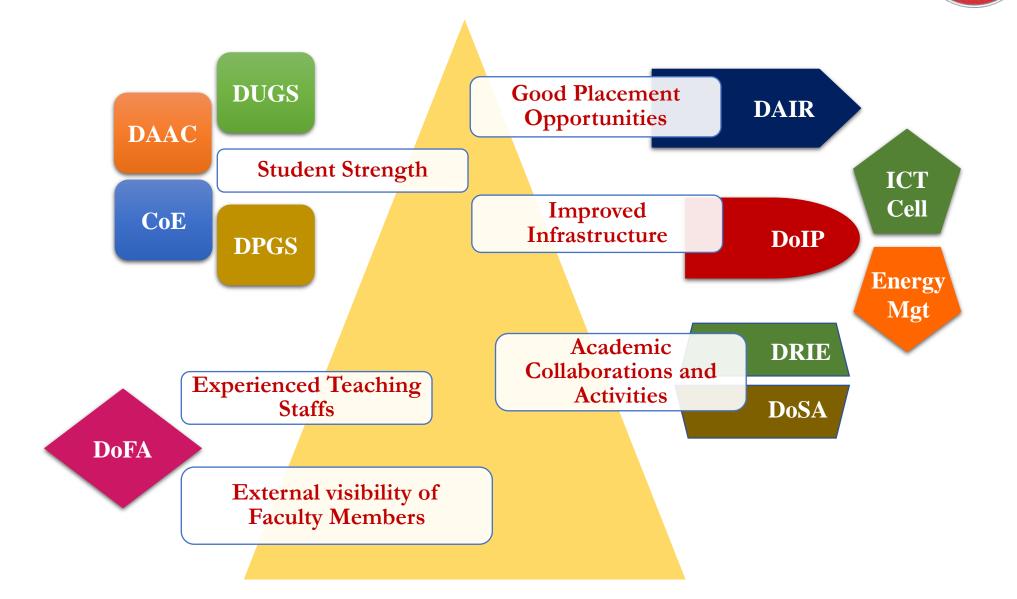
Brief Overview



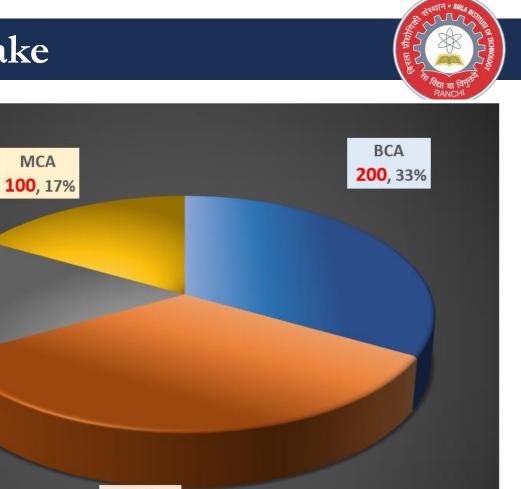
Fa	nculty	S	Stren	gtł	1	
Department		I	No. o	f	Average teaching	Pa
			Facu	lty	Load of each Faculty	Γ
Computer Science & Eng	g. :	2	26		15 Lectures/week	
Management	:	: 2	21			
Officers Accountant				02		C
Sr. System A	nalyst	t				Suppo depart
Other Staff				45		looked
On roll Student Stre 1350 Approx	ength					Office under superv respec I/Cs
Publication in last 4	years		:	1	24	1/CS
MOU			:	0	3	
Patents				0	2	
Projects Applied			:	1	1	

Supportive Departments			
Particulars	Department(s)	No. of Staff	
Supportive departments are looked after by Office Assistant(s) under the	Students' Section	01	
	Admissions	01	
	General Office	01	
	Examination	01	
	Semester	01	
	Accounts	02	
supervision of	Library	04	
respective Faculty I/Cs	Training & Placement	01	
	Computer Lab (s)	05	
	Ancillary Servicesi.Health care Centreii.Caretakeriii.Security	01 02 05	

Strengths of our Centre – A snapshot



Programs Offered and Sanctioned Intake





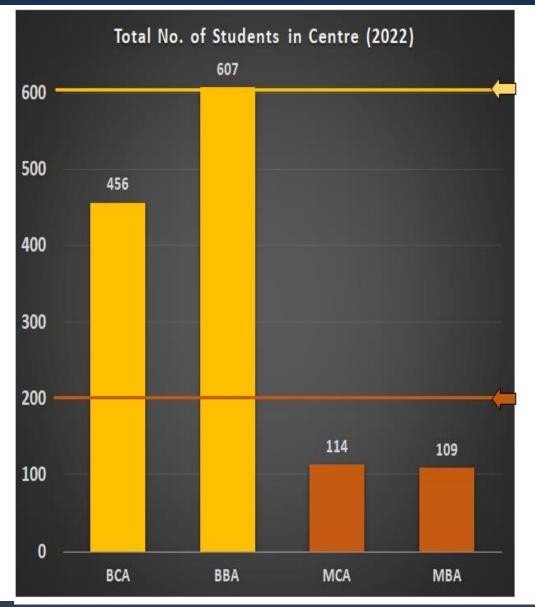
📲 BCA 📓 BBA 🖄 MBA 📕 MCA

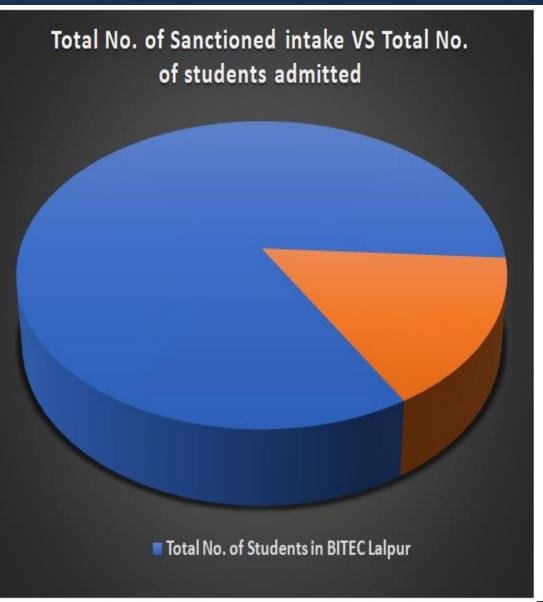
BBA 200, 33%

BIT Mesra Extn. Centre Lalpur (Ranchi City), Jharkhand

MBA 100, 17%

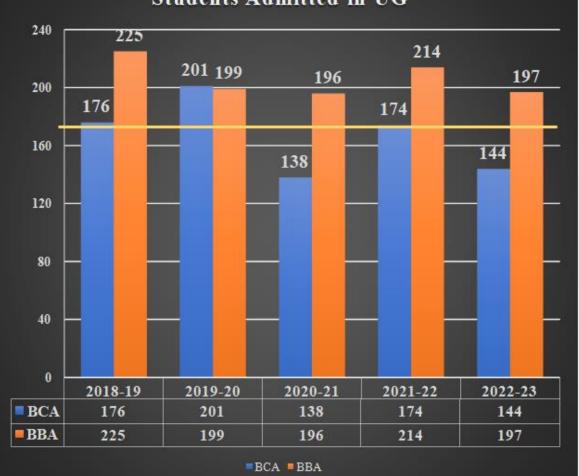
Programs Offered and Sanctioned Intake





Programs Vs # Student





Students Admitted in UG

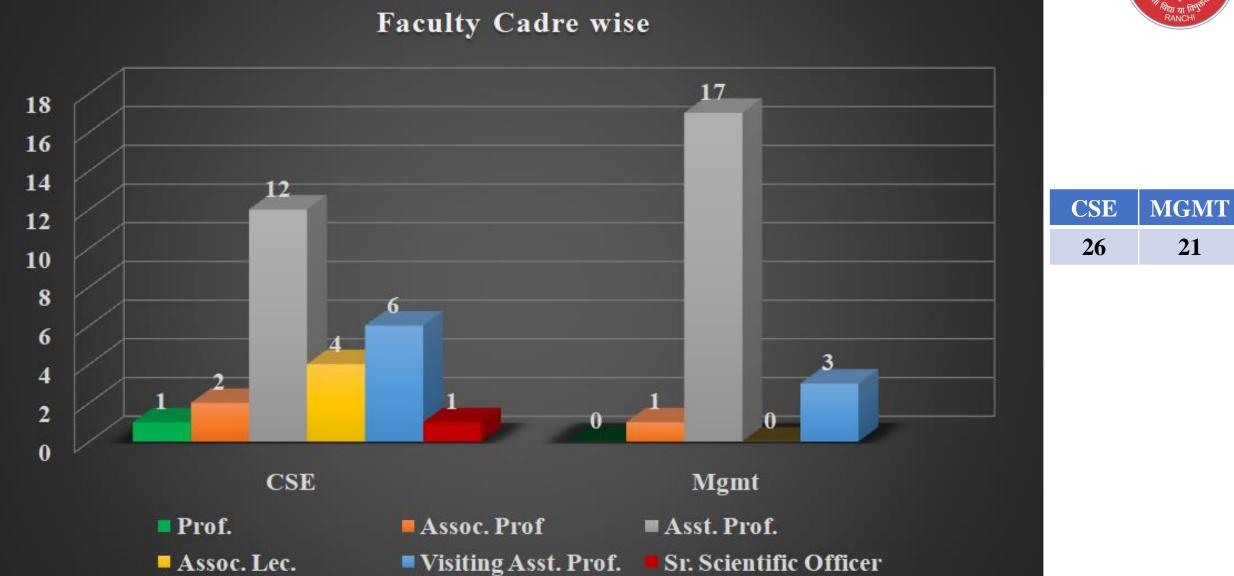
Students Admitted in PG



Total students graduating in 2022: 583 (BCA+MCA+BBA+MBA+PhD)

Faculty Details





Faculty Members of CSE

Dr. Vandana

Bhattacharjee

Professor and

Director

Dr. Sanjay Kumar

Assistant

Professor



Faculty Members of CSE (Contd..)





Faculty Members of Management Department





Dr. Pranab Kumar Associate Professor



Dr. Arun Kr. Singh Assistant Professor



Dr. Abhaya Ranjan Srivastava Assistant Professor



Dr. Somnath Mukherjee Assistant Professor



Dr. Sandeep Nath Sahdeo Assistant Professor



Dr. Tanmoy Kr. Banerjee Assistant Professor



Dr. Mili Dutta Assistant Professor



Ms. Anupma Sahai Assistant Professor



Dr. Anish Haider Assistant Professor



Dr. Pradeep Munda Assistant Professor

Faculty Members of Management Department (Contd..)





Dr. J. Bhagat Assistant Professor



Mr. Amitabh Chandan Assistant Professor



Dr Soumitro Chakravarty Assistant Professor



Dr. Avinash Kr. Sinha Assistant Professor



Dr. Satrajeet Choudhury Assistant Professor



Dr. Ashutosh Mishra Assistant Professor



Dr. Balendra Nath Sayan Assistant Professor



Dr. Prashant Kumar Singh Assistant Professor

Visiting Assistant Professors





Technical Staff Members





Mr. Subhasis Roy Sr. System Analyst (Computer Lab)



Mr. Manoj Kumar Network Assistant (Computer Lab)



Mr. Somenath Chatterjee Teaching Assistant (Computer Lab)



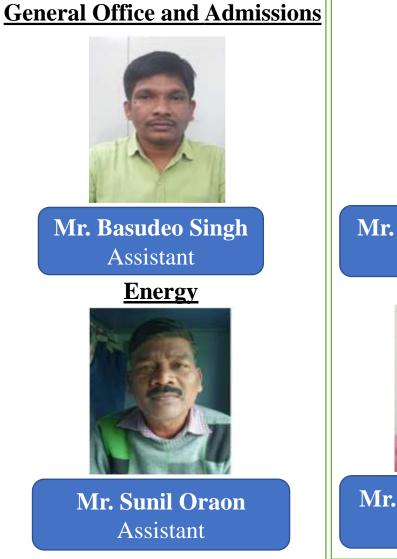
Mr. Santanu Sinha Lab Assistant (Computer Lab)



Mr. Ravi Bhushan Pandey Jr. Office Assistant (Computer Lab)

Office Staff Members





Accounts



Mr. Shantanu Kumar Accountant



Mr. Ashutosh Kumar Assistant

Maintenance & Construction



Mr. Dineshwar Mahto Sr. Tech. Suprintendent



Mr. Birbal Mahto Supervisor

<u>Semester</u>



Mrs. Mini Dubey Jr. Suprintendent

Examination



Mrs. Alice Preety Toppo Lab Assistant

Office Staff Members

ANCHING REAL

Student Section



Mr. Rana Pratap Mishra Lab Assistant





Mrs. Anamika Kumari Assistant



Mr. Ajay Kr. Singh Jr. Suprintendent

<u>Library</u>



Mr. Binod Kumar Assistant





Mrs. Gita Devi Attendant

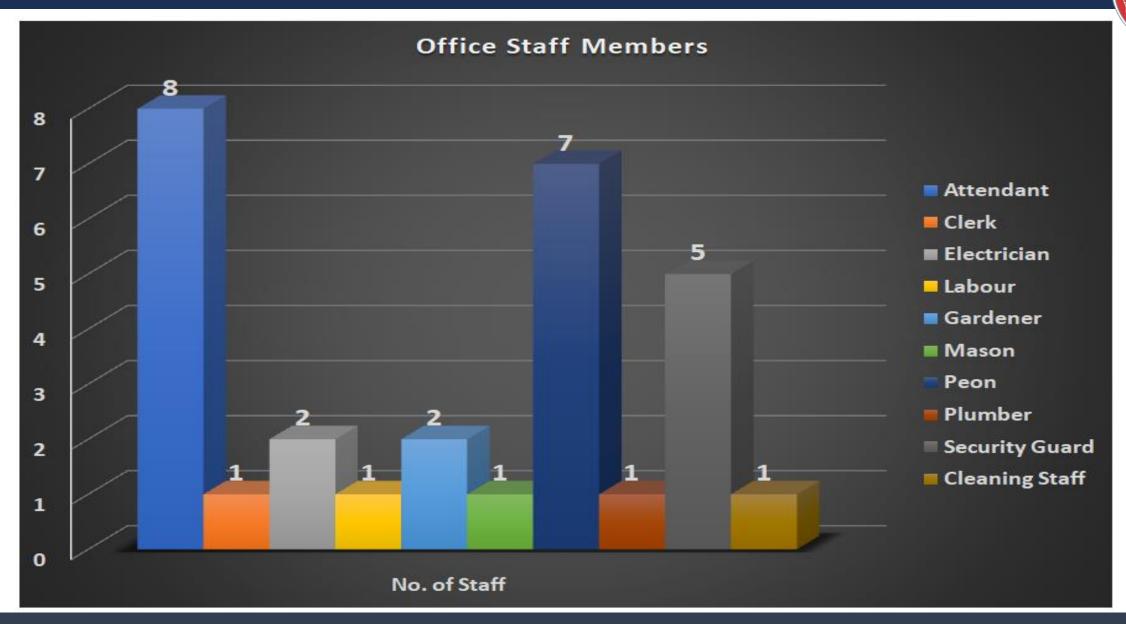


Mrs. Soni Kumari Jr. Suprintendent

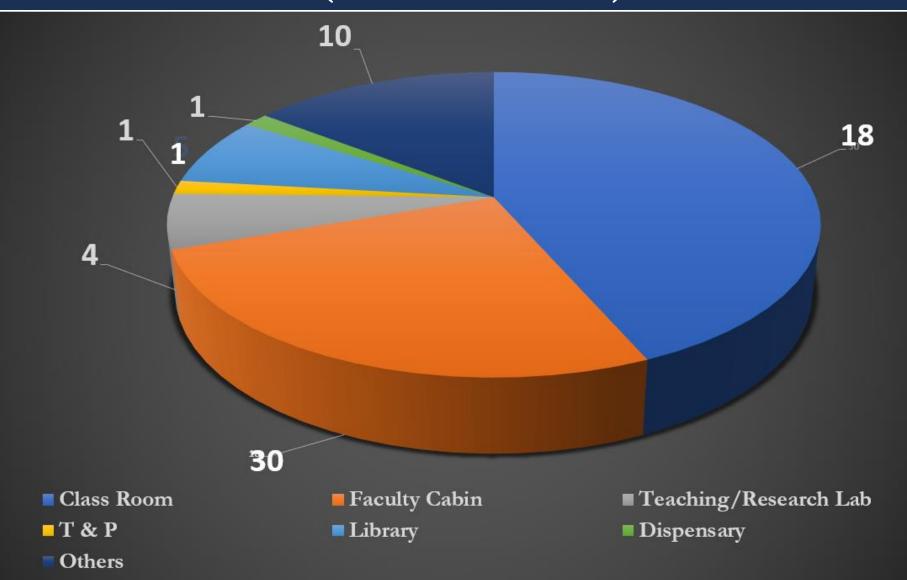


Mrs. Sarita Tigga Attendant

Office Staff Members



Physical Infrastructure (Area wise chart)



Laboratory Infrastructure at a glance.....

Lab	No. of Computers	Area of Lab(Sq. m)	Configurations	
Ι	55	92.5	Core i7 with	
II	50	89.0	inbuilt OS	
III	55	92.5		
IV	50	Under		
V	60	construction		
VI	50			





Used for teaching, research and for conducting placement exams & National/ State level exams like CAT, GATE etc.





Some Snapshots of Infrastructure





Some Snapshots of Infrastructures





Renovations







Our Faculty as Academic Administrative Post Holders.....

Our Faculty as Post Holders...



Name of the Faculty	Responsibilities
Dr. Srabani Mukhopadhyaya	 Coordinator, Semester and ERP Registration Member, Academic Committee
Dr. Amrita Priyam	 Academic Coordinator (CSE) Coordinator – Admission Section
Dr. Pranab Kumar	 Academic Coordinator (Management) Faculty Incharge - AICTE & AISHE
Dr. A. K. Singh	Coordinator – Infrastructure Committee
Dr. Abhaya Ranjan Srivastava	 In-charge NSS & Program Officer (NSS), BIT Lalpur Coordinator – Centre Committee for Media Communication
Dr. S.N. Sahdeo	 Faculty Incharge – Sports Coordinator – Campus Administration Committee Programme Officer – NSS
Dr. Ashutosh Mishra	• Faculty Coordinator – Students' Activities
Dr. Sanjay Kumar	 Coordinator – Admission Section Convenor – Purchase Committee
	BIT Mesra Extn Centre Lalpur (Ranchi City) Jharkhand

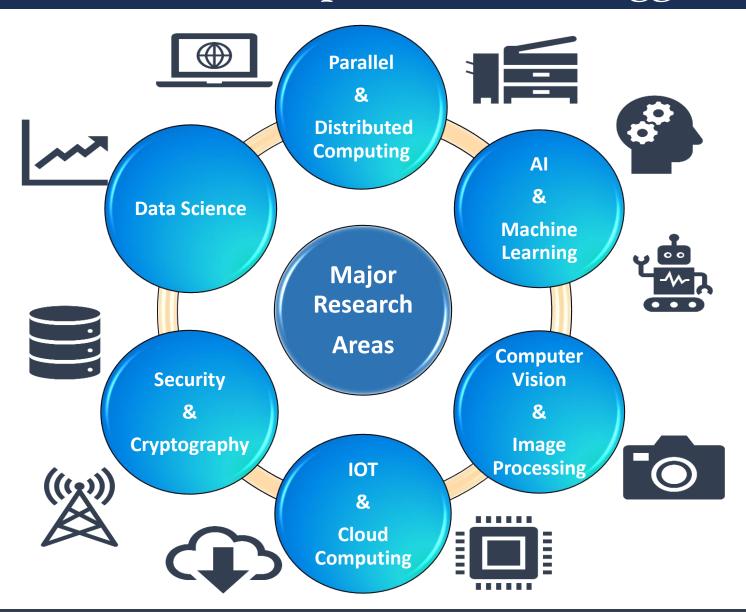
Our Faculty as Post Holders...

Name of the Faculty	Responsibilities			
Mrs. Onima Tigga	Assisting Semester Office			
Dr. Pradeep Munda	Coordinator – Students' Section			
Dr. Shiva Surya Narayana	• Faculty Incharge – Examination Section			
Dr. Jaya Pal	 Faculty Incharge – Examination Section Coordinator – ERP 			
Dr. Kuntal Mukherjee	Coordinator – ERP			
Dr. Soumitro Chakravarty	• Coordinator – Ph.D			
Dr. Umesh Prasad	• Coordinator – Ph.D			
Dr. Mili Dutta	 Assisting AICTE related work at centre Convener of Center Policy Committee 			
Ms. Anupma Sahai	 Academic Coordinator (Management Department) from July 2007 – January 2022. NSS Programme Officer – from April 2018 – March 2021 			
Dr. T. K. Banerjee	Coordinator – Training and Placement			
Dr. Siba Mitra	Coordinator at Training & Placements (CSE)			
Dr. Aparna Shukla	 IT Maintenance Convenor Worked as BITASS Coordinator at BIT Allahabad 			
	PIT Masra Extr. Contro Labur (Panchi City) Ibarkhand			



Research @ BITEC Lalpur.....

Major Research Areas in Computer Science Engg.



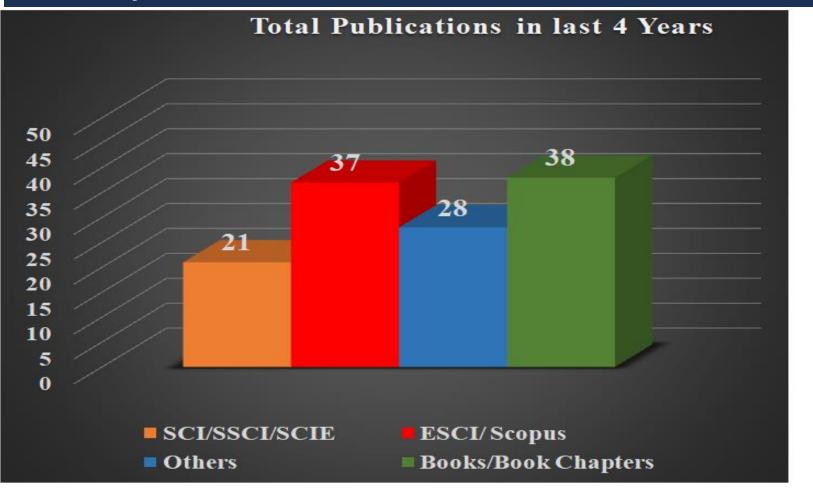
Major Research Areas in Management



Research Scholars Registered/Awarded



Faculty Publications





Academic / Research Activities during last Four years			
# FDP/ Training / STTP Attended	Workshops attended	Conference attended	
33	67	9	

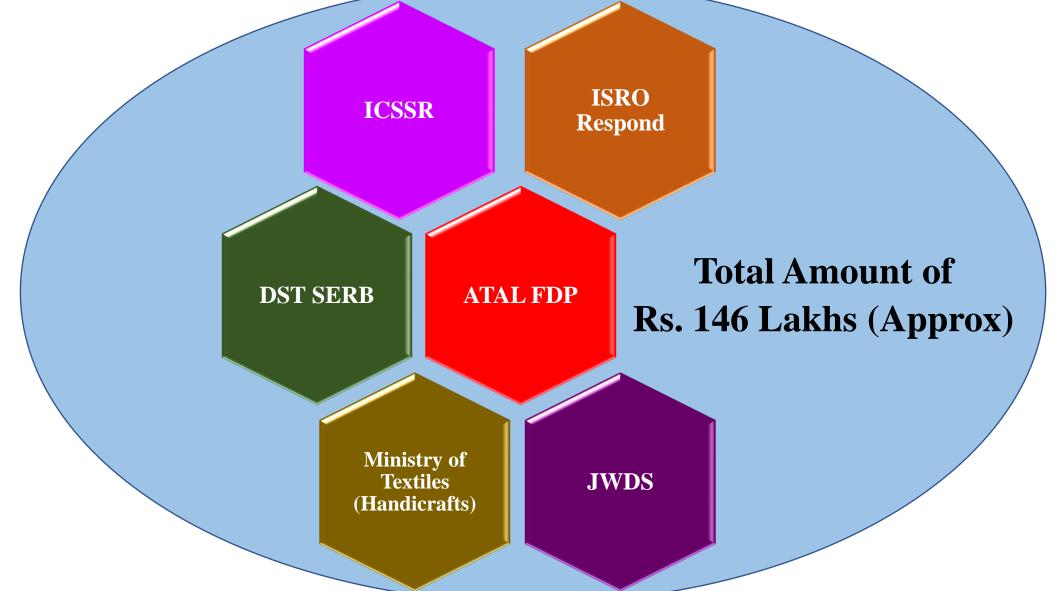
Completed Sponsored Projects



Sl. No.	Name	Title	Funding	Amount	Duration Ranchi
			Agency	(in Lacs)	(in Months)
1	Dr. Vandana Bhattacharjee (PI) and Dr. Kumar Rajnish	Development of Metric Suite for Object- Oriented Design	University Grants Commission	3.06	36
2	Dr. Vandana Bhattacharjee (CO-PI)	Automated vegetation stress detection from very high-resolution multi-temporal spectral data and to establish relationship using Artificial Intelligence	Global, Earth	7.5	12
3	Dr. Subrajeet Mohapatra and Dr. Vandana Bhattacharjee (CO-PI)	Development of Machine Learning Algorithm for the early diagnosis of Delinquent Behaviour in Juveniles		22.54	36
4	Dr. Abhaya Ranjan Srivastava (CO-PI)	"National Food for Work Program" for Katihar, Bihar for five years was prepared.	Department of Rural Development	8.75	18
5	Ms. Anupma Sahai (Project Director)	Exploring the Career Journey of 'High Flyer' Managerial and Professional Women: Tribal and Non Tribal Women in Jharkhand	ICSSR, (MHRD), New Delhi	5.42	36

Projects applied...







Activities, Interactions and Recognitions

Academic Activities conducted this year



Guest Lectures

Online Guest Lecture on the topic "AI AND DEEP LEARNING" by Mr. Shyam Sundar Kumar, Voiceshop (Co-founder) on 29th January 2022

Online Guest Lecture conducted on 30th March 2022 on the topic "CIRCULAR FOOD SUPPLY CHAINS: A PRACTICAL APPROACH" by Dr Sachin Kr. Mangla (University of Plymouth, UK)

BCA Alumni of BITEC Lalpur, BITEC 15 batch 2012 - 15 batch

Online Guest Lecture on the topic "**PROTECTING THE CUSTOMERS FROM FRAUDSTERS IN THE INTERNET WORLD**" by Dr. Debasish Das (Senior Staff Engineer, Google India Pvt. Ltd) on **11th April 2022**



AI LEARNING PATH

How to ace job interview

Academic Activities conducted this year



Guest Lectures

Online Workshop on **"Developing Leadership Skills Among Budding Entrepreneurs (DLSABE-2022)"** was held on 12 - 13th March 2022 at BIT Mesra, Off-Campus Lalpur, Ranchi

बीआइटी लालपुर में कार्यशाला आयोजित

रांची। बीआईटी प्रौद्योगिको संस्थान लालपुर सेंटर में दो दिवसीय कार्यशाला की शनिवार को शुरुआत हुई। इस कार्यशाला में नये और पुराने उद्यमियों को और बलशाली और बेहतरीन रूप से तैयार करने पर जोर दिया गया। कार्यशाला संयोजिका



अनुपमा सहाय ने प्रतिभागी अतिथियों को विषय की जानकारी दी। निदेशक

Online Guest Lecture conducted on 8th February 2022 on the topic "AN INSIGHT ON CIRCULAR ECONOMY" by Ms. Shalini Goyal Bhalla (MD, International Council for Circular Economy)

Online Guest Lecture on "**Ground water- Making the Invisible Visible**" on the occasion of **World Water Day Celebration** on 22nd March 2022



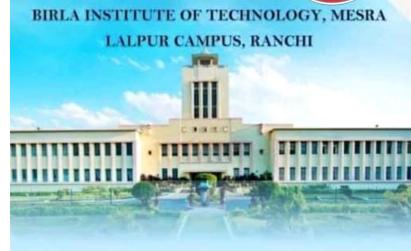


Duration
12-MAR-2022 and 13-MAR-2022
23-MAY-2022 to 27-MAY- 2022
04-JUL-2022 to 08-JUL-2022

Academic Activities conducted this year







ONE WEEK ONLINE NATIONAL WORKSHOP

ON

DIGITAL MARKETING

JULY 4-8, 2022



Organised By **Department Of Management**

sewel himmers.ac.lts

BIT Mesra Extn. Centre Lalpur (Ranchi City), Jharkhand

JOINT CONVENOR



Payment Link:

Fees (including GST): 500 INR

workshoponentreargmail.com



Dr. Avinash Kumar Sinha is an eminent scholar of Birla Institute of Technology, Lalpur Off Campus Ranchi, specifically in the area of Risk Management in Banking Institutions in India

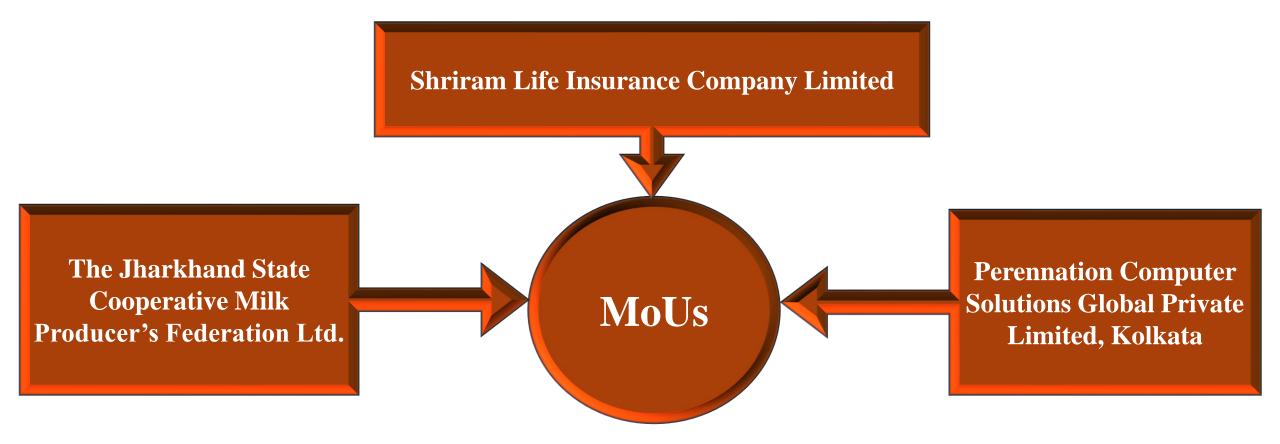


Nagendra Prasad Tiwary is an eminen dar of Birla Institute of Technology, Lalpur Off Campus Ranchi, specifically in the area Network and Web Security

ement and Multivariate Data Ann int Professor Dept. of Computer

MoUs





Note: Two MoUs are currently in process

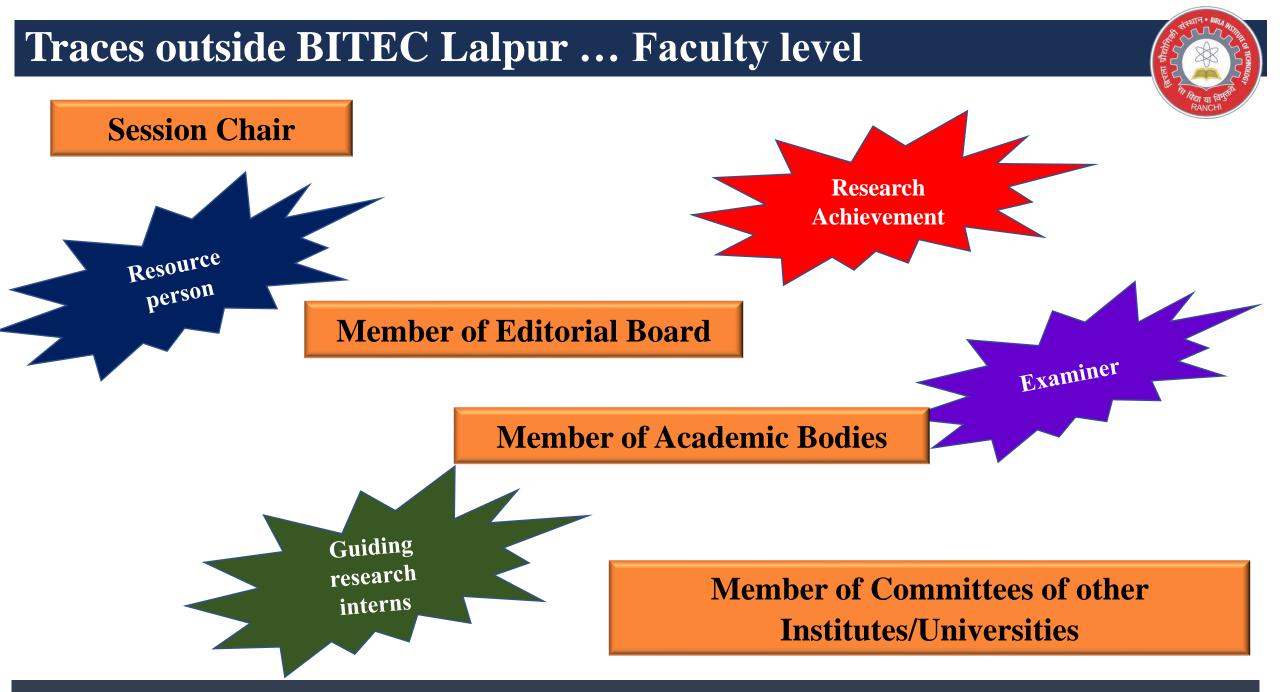


IoT Enabled Tool for Online Education System in the Developing Trend of Smart Education by Dr. Umesh Prasad and Dr. Soumitro Chakravarty

- A smart education server that is enabled by the Internet of Things is one of the components of the smart education system.
- Other components of the smart education system include a student terminal that is preloaded with a learning application, a service that provides a service for learning content such as video clips, images, a live broadcast, and learning materials

Internet of Things for Home Safety Applications by Dr. Soumitro Chakravarty and Dr. Umesh Prasad

- The present invention involves a home device interface, a data transfer unit (DTU) equipment, a platform, a control node, and a network server composing an intelligent home program based on Internet of things technology.
- In comparison to prior art,, the smart household system has the benefit of using Internet of Things technologies to create an intelligent home communications network.
- In home wireless transmission, a wireless network protocol for a home device is used, and the effects of minimal complexity, self-organization, low energy



BIT Mesra Extn. Centre Lalpur (Ranchi City), Jharkhand

Research Achievement

- o Ms. Anupma Sahai
 - Project report work submitted to Indian Council of Social Science Research for DCWC (Documentation Centre for Women and Children) forwarded to Ministry of Women and Child Development (National Institute of Public Cooperation and Child Development).

Guiding research interns

- o Dr. P.S. Bishnu
 - Guided Summer Research Intern from Bhilai Institute of Technology, Durg
- Dr. Mahua Banerjee
 - Certificate of Appreciation from NPTEL for mentoring students in the course Python for Data Science

Examiner

- Dr. Amrita Priyam
 - Examiner of Ph D Viva-voce of a candidate B. R. Ambedkar Bihar University, Muzaffarpur and University Department of Mathematics (MCA), Ranchi University
 - Examiner of UG/PG courses at St. Xavier College ,Ranchi.
- Mrs. Mamata Pandey
 - Examiner of UG/PG courses at Marwari College, Ranchi University

AT THE REAL PROPERTY OF THE PR

Speaker/Resource Person

- Dr. Srabani Mukhopadhyaya
 - Speaker in Refresher course for the teachers of universities, under the umbrella of UGC-HRDC at the Department of Mathematics, Jadavpur University, Kolkata, January 2 – 21, 2017.

o Dr. Pranab Kumar

 Resource person/experts/visiting faculty in various MDPs and Organizations / institutions/Universities e.g. UGC, JPSC, CUJ, XISS, etc. Reviewer

o Ms. Anupma Sahai

- Corporate classes for senior and middle level executives at Indian Institute of Coal Management; executive training institute for Coal India Limited executives at Ranchi
- Entrepreneurship / Women Entrepreneurship classes, being organized by MSME, Government of India, under Entrepreneurial Development Programme
- Classes handled for Block Education Officers of Jharkhand, being organized by Jharkhand Educational Project Council.
- Dr. Mahua Banerjee
 - Coordinator of ATAL (AICTE Teaching And Learning) online FDP Programme on "Emerging trends in Business Data Analytics for Managers" from 22nd November to 26th November 2021

Ren a faster Ranchi

Examiner

o Dr. Srabani Mukhopadhyaya

- Examiner in M. Tech. Department of Information Technology, Jadavpur University, Kolkata; M.Sc. Department of Mathematics, Jadavpur University, Kolkata and M. Tech. Department of Information Technology, NIT, Durgapur
- o Dr. Pranab Kumar
 - Examiner of Ph D Viva-voce in Usha Martin University, Ranchi and Magadh University, Bodh Gaya
 - Examiner of UG/PG courses in Amity University, Ranchi; Usha Martin University, Ranchi; Birsa Agricultural University, Ranchi and Central University, Ranchi
- o Ms. Anupama Sahai
 - External Examiner Viva Voce Examination, Ranchi University
- o Dr. Mili Dutta
 - Project Viva-voce Evaluation of MBA course at Institute of Management Studies(Ranchi University) St. Xavier College, Ranchi.

Member of Editorial Board

- o Dr. Abhaya Ranjan Srivastava
 - Reviewer of Amity Journal of Marketing
- Dr. Mahua Banerjee:
 - Member of Jharkhand Journal of Development and Management Studies (JJDMS), XISS (since 2016)

• Ms. Kimmi Kumari

- Reviewer in Q1 ranking journal
- Reviewer @ Journal of Big Data

Guest of Honor

• Mrs. Mamata Pandey

 Judge for the Departmental Seminar on Robotic Surgery organized by the Department of Computer Application, Nirmala College, Ranchi

Member of Academic Bodies

- Dr. Srabani Mukhopadhyaya
 - Computer Society of India (CSI)
- o Dr. Amrita Priyam
 - International Association of Engineers (IAENG).
 - Life Member of Indian Society for Technical Education (ISTE).
- o Dr. Pranab Kumar
 - Life Member, National Institute of Personnel Management.
 - Individual Life Member, Indian Society of Labour Economics.
 - Individual Lifetime Member, National HRD Network.
- Dr. Abhaya Ranjan Srivastava
 - Board Member for recruiting personnel at State, District & Block Level Positions in Tejaswini Program in 2022, 2021, 2020 & 2019
 - Resource Person in Craft Awareness Program organised by Office of DC (Handicrafts), M&SEC Ranchi in 2022 at Khunti and Ranchi
 - Reviewed research Paper for Thailand & the World Economy (TWE) in 2021 (SCImago database)

Member of Academic Bodies

- o Ms. Anupma Sahai
 - Member of Strategic Management Society , Chicago, Illinois, USA
 - Member of All India Management Association, New Delhi.
 - Member of National HRD Network, New Delhi
- o Dr. Ashutosh Mishra
 - International Council for Circular Economy (ICCE)
- \circ Dr. Mili Dutta
 - AIMS International (till 2019)
- o Dr. Mahua Banerjee
 - Indian Science Congress Association
 - Indian Society for Technical Education

алисника Калана Кал

Session Chair

Dr. Srabani Mukhopadhyaya

Technical Program Co-Chair, ICACCT 2018

Dr. Abhaya Ranjan Srivastava

 Chairperson for a session in the National Conference "e-Buzz-The X-factor" at GLA University Mathura during March 20-21, 2015

o Ms. Anupma Sahai

- Facilitated Talking Circles at University of Cambridge, UK, (in The Third International Conference on New Direction in the Humanities)
- Chaired the session on "Women Professionals" at the Eighth AIMS International Conference on Management organized at the Indian Institute of Management Ahmedabad.
- Chaired a Track (Track 1 HR, Day 1, Second Session) and Member of the Organizing Committee - International Conference on Sustainability : Research, Education and Practice Organized by : The Department of Management, BIT Mesra, MAY 30-31, 2022.

RETURNED TO THE REPORT

Member of Committees of other Institutes/Universities

- o Dr. Pranab Kumar
 - Member, BoS, Dept of IR&PM, Patna University, Patna
 - Usha Martin University, Ranchi (External Expert in Research Committees)
- Dr. Abhaya Ranjan Srivastava
 - Member of Technical Committee for Deemed to be Affiliation for Academic Year 2022-2023 at JUT(Jharkhand University of Technology) Ranchi for M.Tech, MBA, MCA, B.Tech., BBA, BCA, BHMCT & Diploma Courses
 - Member of Technical Committee for Affiliation of Diploma Course of Asoka Institute of Hotel Management, Giridih for Academic Year 2021-2022 on behalf of JUT in 2022
 - Member of Physical Inspection Committee of Asian Institute of Management & Technology on behalf of JUT in 2022
 - Member of Technical Committee for Deemed to be Affiliation for Academic Year 2021-2022 at JUT Ranchi
- Mrs. Mamata Pandey
 - Syllabus committee UG/PG (Department of Information Technology and Computer Application, Ranchi Women's College, Ranchi)

Books Published

o PS Bishnu, V Bhattacherjee "Data Analysis: Using Statistics and Probability with R Language" published by PHI on 2019

Traces outside BITEC Lalpur ... Student level





ATT THE REPORT OF THE RANGE

Hackathon

- o 1st prize winners in Smart India Hackathon 2022
 - The Team of MCA students composed of Mr. Rahul Kant (*Team Leader*), Ms. Anshu Kumari, Ms. Ruchika Vijay, Mr. Soumyak Biswas and Ms. Swati Rani were declared 1st prize winners.
 - The Team of BCA students composed of Mr. Aakash Arya(*Team Leader*), Mr. Aman Kumar, Mr. Harsh Raj, Mr. Shubham Kumar Singh, Ms. Puja Kumari and Ms. Kriti Shekhar were declared joint winners.

Participation

- \circ Participated in FICCI FRAME OF YOUR IDEA 2022, Mumbai
- Participated in Tata imagination challenge (2021)

Achievements

o 1st Prize in Quizzard 2022

Leve

Student

- A+ Certification in Digital Marketing 2022
- Got a medal from Jharkhand Renewable Energy Development Agency (JREDA), campaigning for Renewable Energy sources.
- Electrical work permit of supervisor- issued by Energy Dept Govt of Jharkhand

ALL REAL AND THE AND T

Competition

- o India prime author award, 3rd rank in district level. (Proud Co-author of "Sukoon")
- JSCA Swimming Competition held on 15th June, 2022 (3rd Position)

Roles and Responsibilities

• Chapter Lead at DRISTI NGO.

Leve]

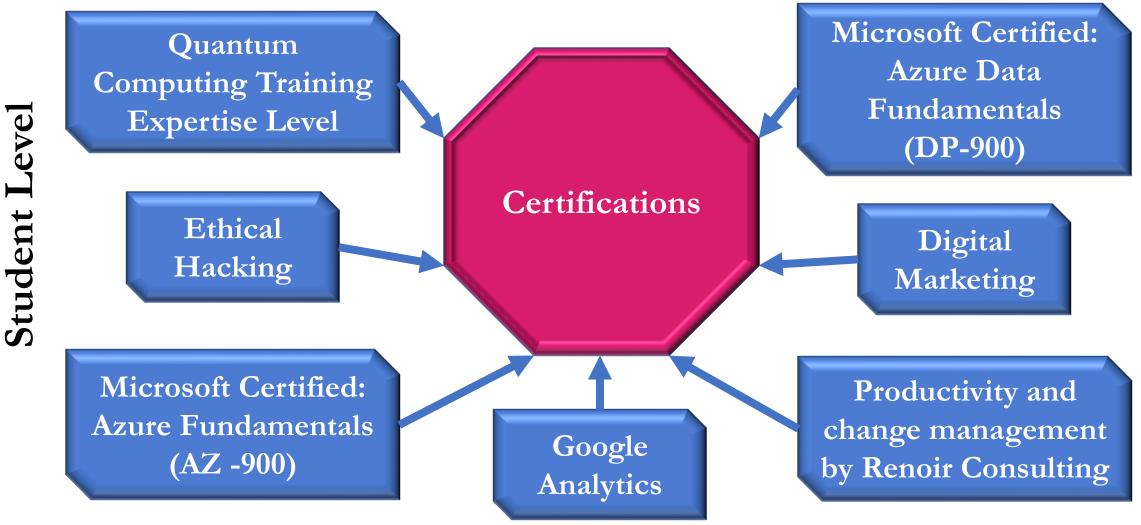
Student

- Organised Blood Donation Camp at BIT Lalpur
- Event Management Head At Dristi NGO Lalpur Chapter (2022-2023)
- Vice-president At Wake Up India Foundation Ranchi Chapter (2022-2023)
- o Member of NGO Little Aryabhatta Foundation

Conference

- Amazon AWS online conference
- Machine Learning To Deep Learning: A Journey For Remote Sensing Data Classification, IIRS Dehradun
- National Conference On Paradigm Shift Towards Sustainable Management Practices
- Conference at ISM Dhanbad on its founder's day, Seminar by Idigitalpreneur.





Events organized by Student Bodies/Clubs



Women's Day: NAZARIYA



Name of the Event	Date	Details	
"Swachta Drive"	11/08/18	"Swachta Drive" at Birsa Munda Samadhi	
		Asthal and Swami Vivekananda Smriti Park, Kokar, Ranchi	
Saghan Safaai Jagrukta Abhiyaan	12/08/18	Cleanliness Drive at Hindpiri, Ranchi	
Independence Day	15/08/18	Nukkad Natak on Swachh Bharat Abhiyaan	
Teachers' Day Celebration	05/09/18	MAD AD and Speech/Poetry Competition	
NSS Foundation Day	24/09/18	Nukkad Natak –"Ek Abhilasha Swachhta ki" Oxygen Park and Nilambar- Pitambar park, Morhabadi, Ranchi	
Cultural Program	29/09/18	"The Cleanliness Message Program" at Vanprashta Ashram, DAV Nandraj, Bariatu, Ranchi in collaboration with CCL	
Saghan Swachhta Abhiyan	30/09/18	Swachhta Hi Sewa "Say No To Plastic"	
Celebrating Gandhi Jayanti	02/10/18	Swachhta Cyclothone (A Cycle Rally in collaboration with CCL)	

Events organized by Student Bodies/Clubs



Name of the Event	Date	Details
Unity Day Celebration	28/10/18	At the Orphanage 'Cheshire Home' Bariatu, Ranchi
Education Camp at Rajkiya Mahila Vidyalaya, Kantatoli	10/11/18	Teaching students & organizing fun events
Youth Parliament	10/01/19 - 11/01/19	Birla Institute of Technology, Mesra (Lalpur Centre)
Health Camp at Tatisilwai, Ranchi	13/01/19	Organised in association with Prayas Global Foundation at Tatisilwai, Ranchi.
Republic Day Celebration	26/01/19	Nukkad Natak Poetry, Speech and group song
Education Camp at Rajkiya Balika Uchhya Vidyalaya Vidyalaya, Kantatoli	09/02/19	Organised sessions on personal hygiene and sanitation for the students and games.
Women's Day: NAZARIYA	07/03/19	Speech, song, poetry competition

Snapshots of Events organized by Student Bodies/Clubs



Snapshots of Events organized by Student Bodies/Clubs



Snapshots of Events organized by Student Bodies/Clubs



मध्य विद्यालय, कांट्राटोली में 'एजुकेशन कैंप' लगाया गया. इस दौरान बच्चों ने चित्रकला प्रतियोगिता, कबड्डी और खो-खो में हिस्सा लिया. भाषण द्वारा बच और समझाट समझाट **Education** राजकृट **Education** राजकृट समझाट **Education** राजकृट **Camp** संप्रन कामना, निशांत कामना, निशांत

बीआइटी लालपुर ने लगाया कैंप

रांची संवाददाता

रांची. एनएसएस बीआइटी

मेसरा लालपुर कैंपस की

ओर से शनिवार को राजकीय

एनएसएस बीआईटी मेसरा लालपुर कैंपस की ओर से शनिवार को राजकीय मध्य विद्यालय कांटाटोली में एजुकेशन कैंप लगाया गया।

इस दौरान बच्चों ने चित्रकला प्रतियोगिता, कबड्डी व खो-खो में भाग लिया। भाषण प्रतियोगिता से बच्चों को शिक्षा और स्वच्छता का महत्व बताया गया। बच्चों को स्वच्छ और शिक्षित बनने की सीख मिली। कार्यक्रम एनएसएस के कार्यक्रम संयोजक डॉ एआर श्रीवास्तव व विद्यालय की प्रभारी प्राचार्या अनीता के नेतुत्व में हुआ।



न कार्यक्रम को सफल बनाने में परीक्षित कुमार बॉस, जया, जागृति, कृतिका, ो फैजान, साक्षी, प्रेरणा समेत छात्र । छात्राओं ने महत्वपर्ण भमिका निभायी।

बच्चे खेल में शामिल हए। • हिन्दस्तान





रांची। बीआईटी लालपुर कैंपस की एनएसएसइकाई औरसीसीएलकी ओर से गांधी जयंती पर साइकिल रैली 'साइक्लोथॉन' का आयोजन किया गया। रैली सीसीएल मुख्वालय दरभंग हाउस से शुरू होकर शहर के विभिन्न हिस्सों से गुजरी। साइकिल रैली के माध्यम से स्वच्छता के लिए लोगों को प्रेरित किया गया। कार्यक्रम को सफल बनाने में एनएसएस बीआईटी मेसरा लालपुर कैंपस के परीक्षित कुमार, नीतू कुमारी, अमन , श्रेया उपाध्याय व 70 से अधिक छात्रों ने भूमिका रही।

बीआइटी लालपुर के छात्रों ने मनाया एकता दिवस



बीआइटी लालपुर के छात्र-छात्राओं ने सोमवार को चेशायर होम में एकता दिवस मनाया। इन्होंने सरदार वल्लभ भाई पटेल के जीवन को बताया। मौके पर एनएसएस इंचार्ज डों . एआर श्रीवास्तव, निमिषा, मेघा, शुभ्रा, आकाश, प्रियंका, अपूर्व, अनुष्का, रिचा, परिक्षित सहित अन्य थे।

> Ekta Diwas Celebration



Recruitments & Alumni

Major Recruiters at BITECL



RET TI RESIDENCE

Major Recruiters at BITECL





















COMVICE A TECH MAHINDRA COMPANY

> Incture TECHNOLOGIES





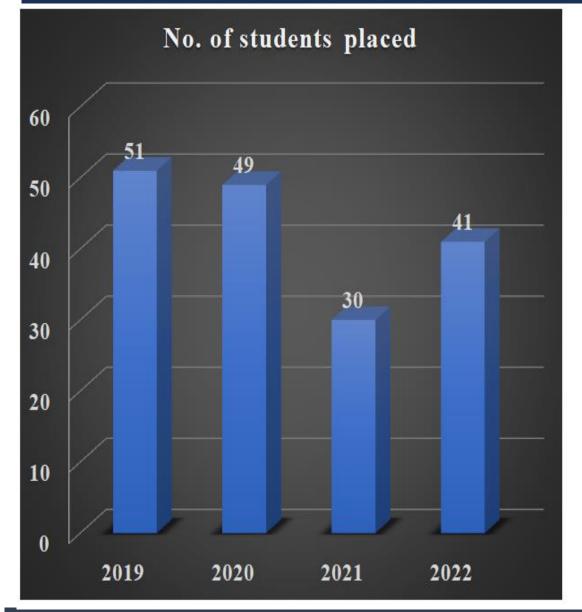
BIT Mesra Extn. Centre Lalpur (Ranchi City), Jharkhand





BIT Mesra Extn. Centre Lalpur (Ranchi City), Jharkhand

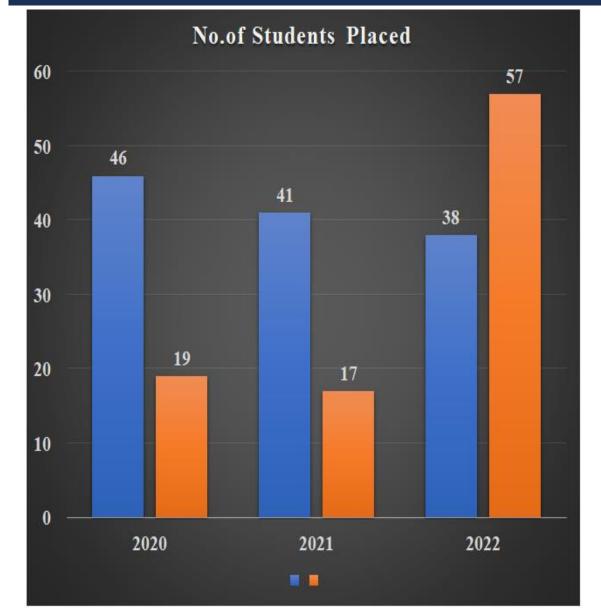
On Centre Students Placement Record (MBA)

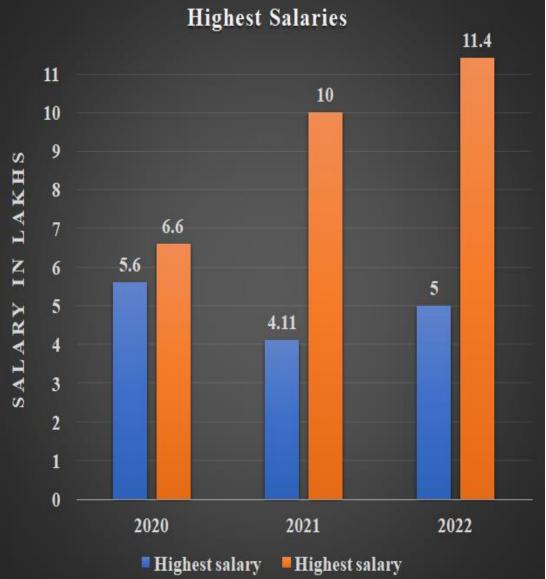




On Centre Students Placement Record (CSE)







Distinguished Alumni of BITECL





Mr. Umang Gupta Software Engineer Salesforce (Integrated MCA, 2017)



Mr. Vaibhav Singh Senior Manager, Operations SAIL, Durgapur (MCA, 2006)



Ms. Priti Kumari System Debug Software Engineer, Intel (MCA, 2016) Ms. Apurva Roy Associate Analyst, Deloitte (BCA, 2021)

Distinguished Alumni of BITECL

Distinguished Alumni of BITECL





Information Security Architect & Advisor, Cargill (BCA, 2009) Mr. Paras Kr. Pathak SDE3, Amazon (MCA, 2009) Mr. Bijoy Mandal Package Specialist-HCM Cloud, IBM - USA (MCA, 2011)



Mr. Navarose Neeraj Assistant Consultant, TCS (MCA, 2010)

Distinguished Alumni of BITECL

Distinguished Alumni of BITECL





Mr. Shivesh Singh Head – Business HR Bandhan Bank (BBA, 2004)



Mr. Sumit Kumar Assistant Vice-President, Bandhan Bank (MBA, 2006)



Ms. Divya Narayan Manager – Success Factors, Deloitte (MBA, 2008)

Distinguished Alumni of BITEC



Research Glimpses @ BITEC Lalpur

Some glimpses...

Autor to the termination of termination of the termination of terminatio

Software defect prediction using Graph Convolutional Network feature representation A Framework For Analysis Of Incompleteness And Security Challenges In IOT Big Data

Electroencephalogram (EEG) signal based study of Depression Disorder DETAILED ANALYSIS OF CLASSIFIER FOR PREDICTION OF DIABETES

Movie Analyzer using Fuzzy Rule Based System

Image Regeneration from EEG signals using Deep learning Message framing impact on behavioural intention of the consumer in purchase of organic food

Identification of *k*-Most Promising Features to Set Blue Ocean Strategy in Decision Making

PREDICTING EMPLOYERS' SATISFACTION WITH SKILL COMPETENCIES OF INDIAN ENGINEERING GRADUATES APPLYING EXPECTANCY-DISCONFIRMATION THEORY Grid Exploration by a Swarm of Autonomous Robots with Minimum Repetitions Employer Branding and its Role in Effective Recruitment

A Theme of Smart Cities Based on IoT, Fuzzy Logic and Quantum Deep Learning Technique

Detecting Denial of Service Attacks using Machine Learning Algorithms

Application of Fuzzy Automata Decision-Making System in Target Control

A Novel Hybrid Metaheuristic Approach to Perceive the Gender Based Identification System

Predicting Employers' Satisfaction with Skill Competencies of Indian Engineering Graduates

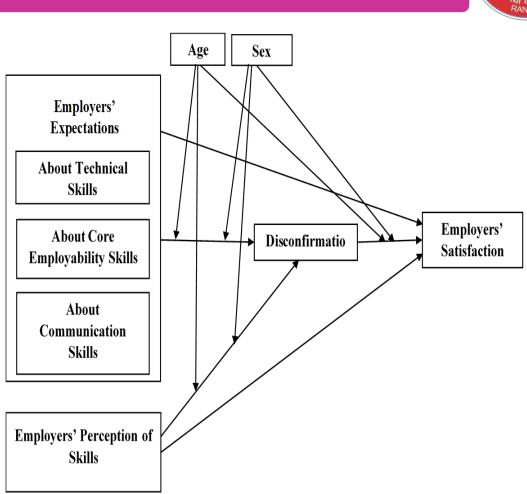


Lack of employability of 1.5 million engineering graduating from HEIs every year.

Implications

Research Gap

The study highlights skill competencies of engineering graduates that would meet the expectations and perception of employers, thereby affecting employer satisfaction with new hires. Findings of the study are expected to be of use not only to higher education institutions offering technical education in revisiting their curricula in tandem with industry requirements but also to students pursuing engineering courses and employers who recruit these students once they graduate.



Model

Image Regeneration from EEG signals using Deep learning

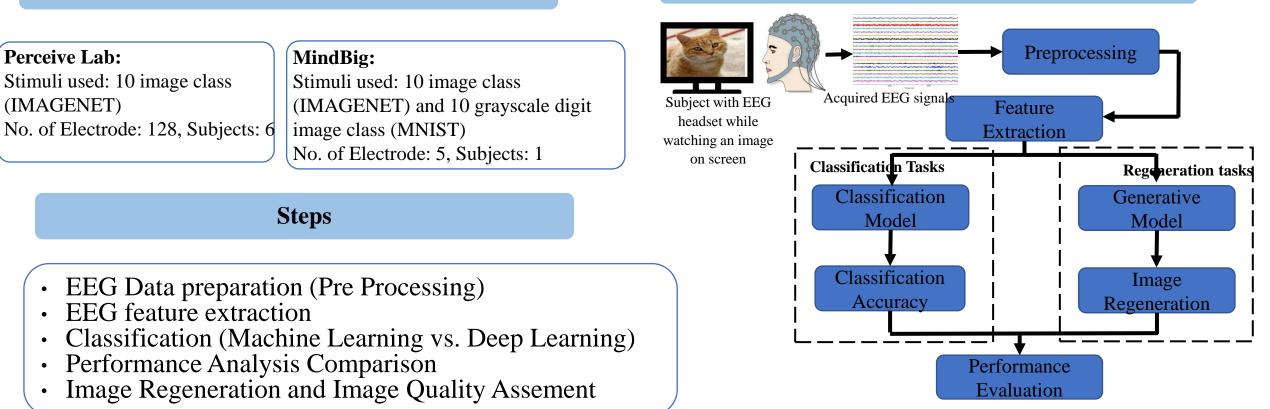


Objectives

The aim of the work is to extract some cues/relevant features from the brain electrical activity recorded using an EEG device, and classify, visualize and generate the image of an object a person is thinking about.

Work Flow

Dataset Used

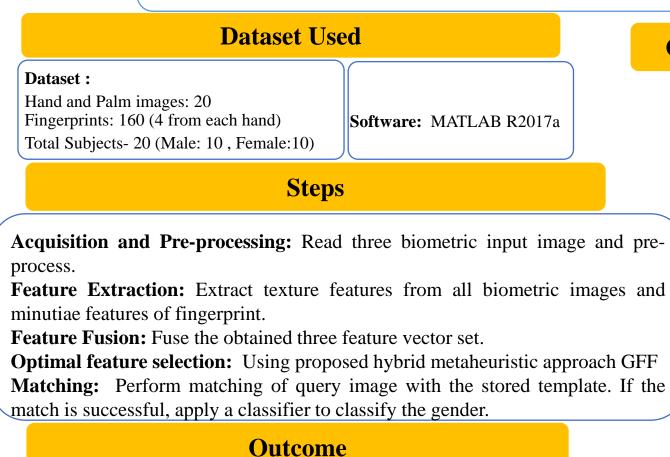


A Novel Hybrid Metaheuristic Approach to Perceive the Gender Based Identification System



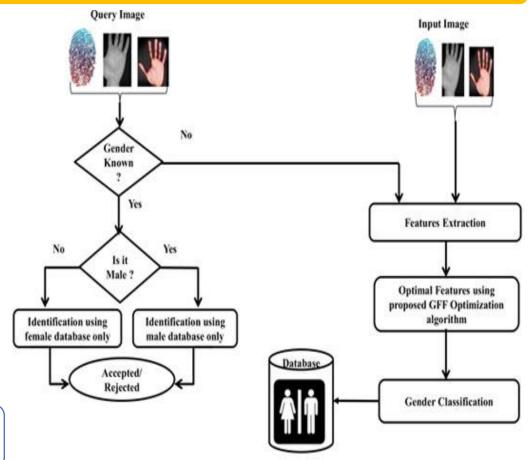
Objectives

The objective of the work is to propose the metaheuristic approach for a gender-based identification system by integrating the multimodal biometric traits fingerprint, palm print and hand in a specific manner that narrows down the search space.



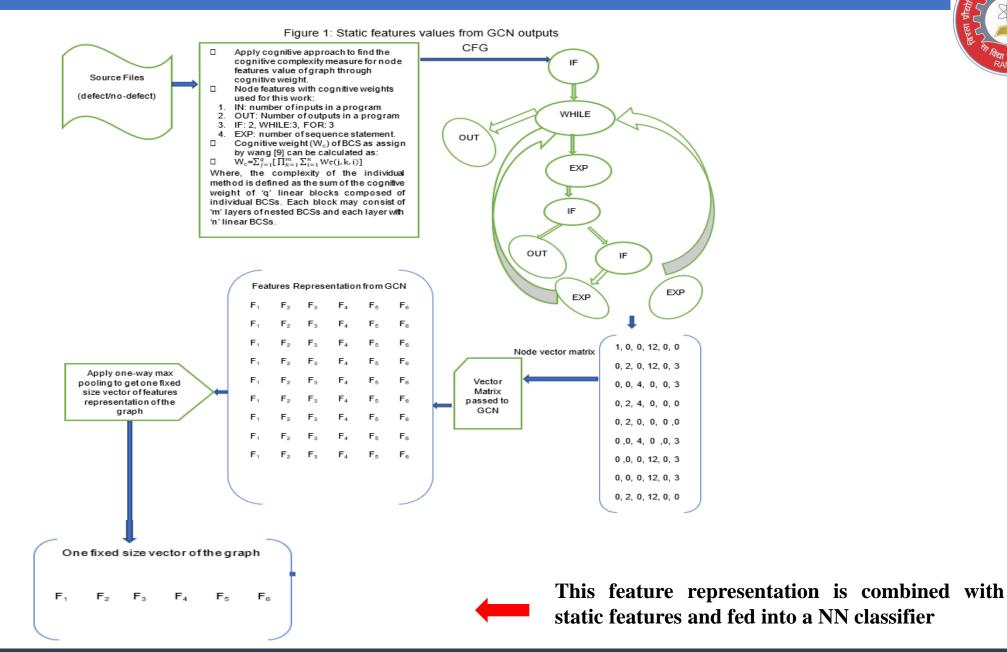
Enhances the overall performance of the proposed system by reducing the search space over time and space. Accuracy rate of 99.2% achieved.





Software defect prediction using Graph Convolutional Network feature representation

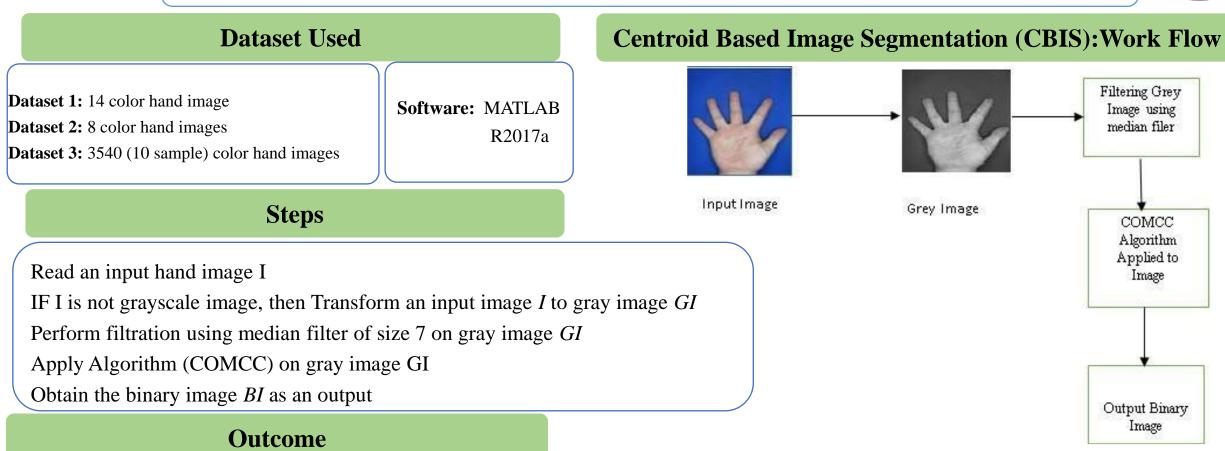




An Efficient Clustering-Based Segmentation Approach for Biometric Image

Objectives





The work aims to present an efficient clustering-based image segmentation approach to obtain the quality segmented binary

image that is further processed to get the quality decision in the biometric-based identification system.

Performance parameters used are - PSNR, Dunn Index (DI), Silhouette width (S) and Run Time.

The proposed CBIS's segmented results of hand images are more **authentic**, **sharp and clear visualization** that yield effective and efficient results than the other existing methods approaches such as K-mean, K-medoid and GMM.

BIT Mesra Extn. Campus Lalpur (Ranchi City), Jharkhand

Exploring Relationships Among IT Advancement, IT Assimilation, Supply Chain Capabilities & Supply Chain Performance

Objective

S

Explore the direct and indirect relationships between the capabilities related to IT, and between the capabilities related to supply chain and study their effects on performance.



Research Methodology

The survey was accomplished by employing the snowball sampling technique. The respondents comprised of senior and mid-level executives from various departments related to the manufacturing and IT activities from Manufacturing Industries in India (Boilers and heavy electrical equipment, steel and alloy, fertilizer, chemical and allied products, ceramics, etc.).

The analysis was conducted on 285 valid responses using PLS-SEM (Partial Least Square – Structural Equation Modeling) through SmartPLS 3.0.

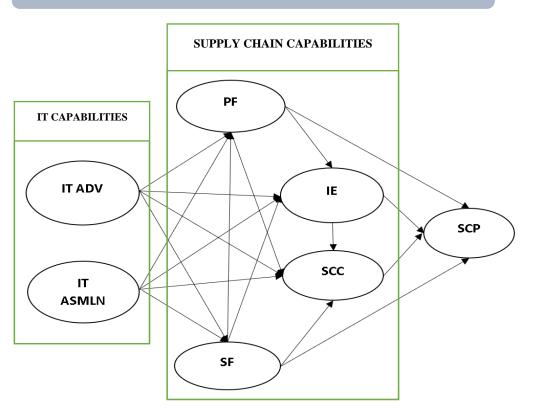
Conclusion

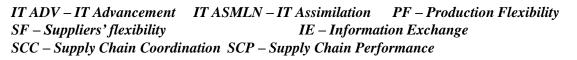
The study from the ERBV perspective explored the relationship between IT capabilities (IT advancement and IT assimilation) on the SC capabilities (supplier's flexibility, production flexibility, information exchange, and supply chain coordination).

Increasing use of advanced IT leads to organizations to have access to suppliers' status on various aspects thereby offers required flexibility.

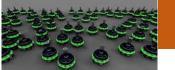
The flexibility exhibited by suppliers was found to be an important SC capability in achieving superior SC performance.

Information exchange and suppliers' flexibility were found to be important mediators which could be leveraged by IT advancements and IT assimilation in realizing improvements in SC coordination and SC performance.





Research Model

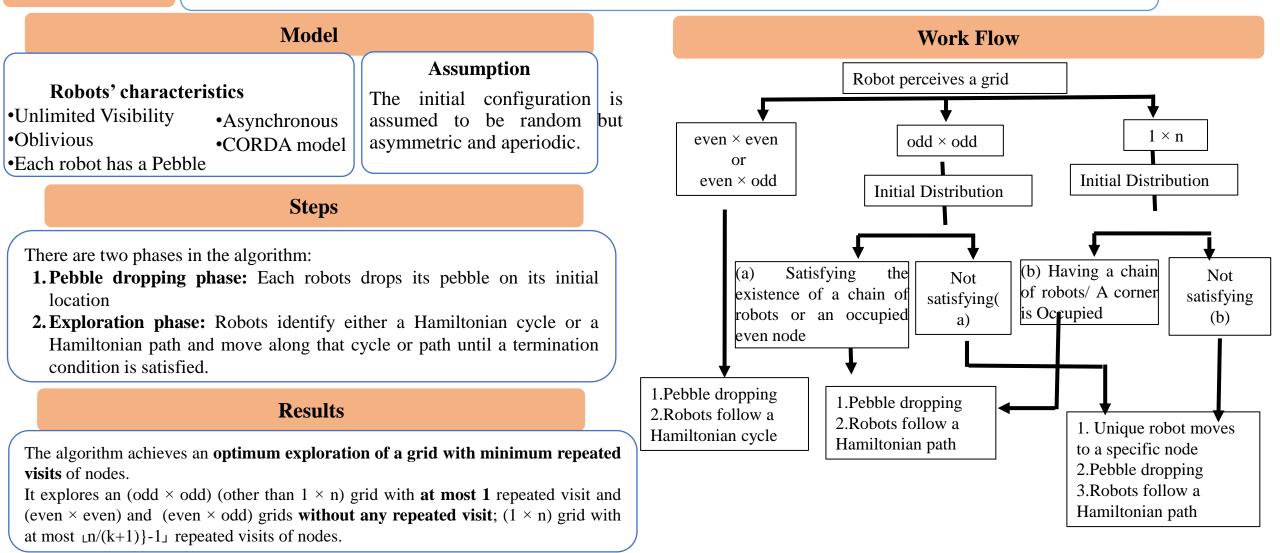


Grid Exploration by a Swarm of Autonomous Robots with Minimum Repetitions



Objectives

To explore a grid with minimum repeated visits of nodes using autonomous, asynchronous and oblivious (no memory) robots that have unlimited visibility and a single pebble each.



Movie Analyzer using Fuzzy Rule Based System



Objectives

The aim of the work is to design a fuzzy rule based system for categorization of a movie, based on effectiveness of attributes like Acting, Direction, Music and Concept and analyzed the values of these attributes for the success of a movie.

Dataset Used

Variable Name	Min	Max	Mean	Median	Standard
					Deviation
Acting	3.7	9.9	7.26	7.45	1.72
Direction	3.8	9.8	6.85	7.05	1.95
Music	3.5	9.6	6.85	7.6	2.12
Concept	1.9	9.5	6.25	6.65	2.07
Final Status	3.7	9.4	6.79	7.25	1.79

Steps

•Identify the variables (input and output) of the system.

•Partition interval spanned by each variable into a number of fuzzy subsets.

•Assign membership function for each fuzzy set.

•Assign fuzzy relationships between input and output fuzzy subsets.

•Fuzzily the inputs to the system.

•Use fuzzy approximate reasoning to infer the output contributed from each rule.

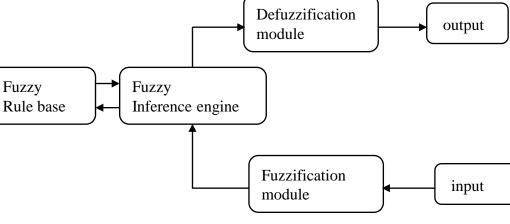
•Aggregate the fuzzy outputs recommended by each rule.

• Apply defuzzification to form a crisp output .

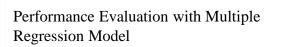
•performance analysis comparison with multiple regression model.

Outcome





Fuzzy Rule Based System

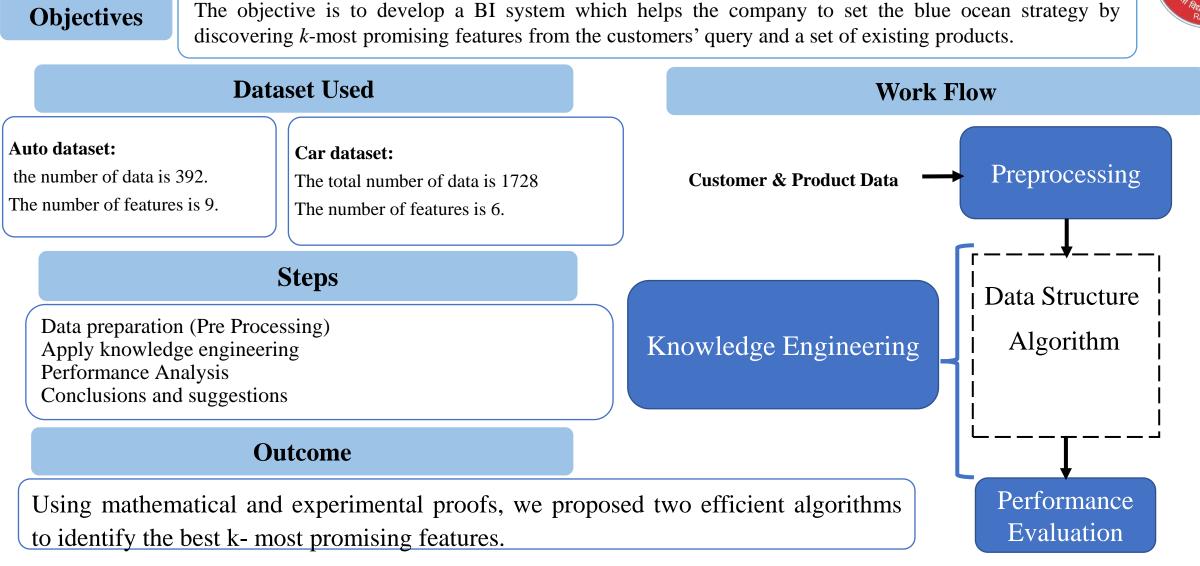


fuzzy logic can be used as an alternative for estimating the final status of movie as bad, average and good.

BIT Mesra Extn. Campus Lalpur (Ranchi City), Jharkhand

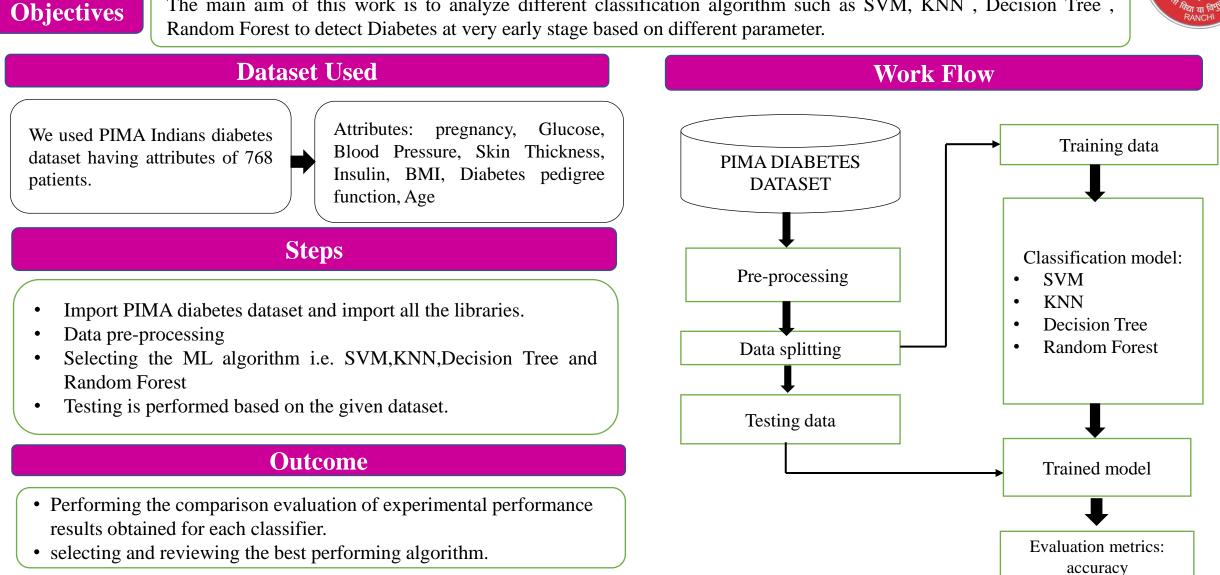
Identification of *k***-Most Promising Features to Set Blue Ocean Strategy in Decision Making**











The main aim of this work is to analyze different classification algorithm such as SVM, KNN, Decision Tree,

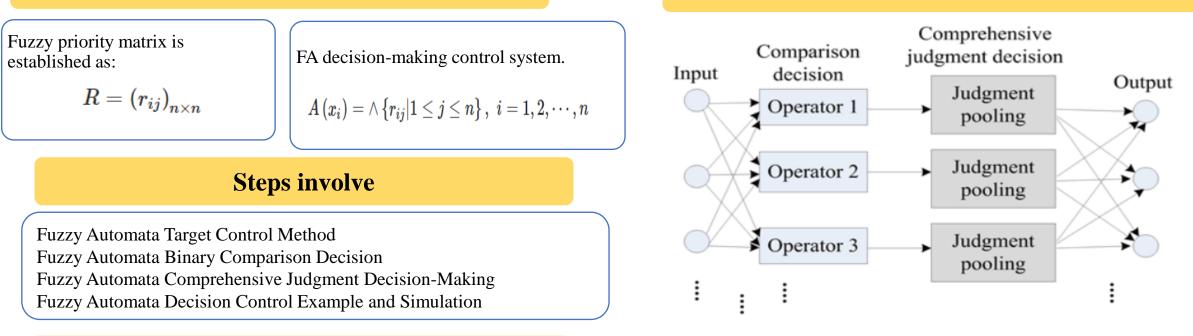
Application of Fuzzy Automata Decision-Making System in Target Control



Objectives

Based on the theory of Fuzzy Automata, this research proposes the control method of FA decision system to target control, gives the FA decision system model, and gives the two-level decision algorithms.

Method & Steps



Research outcome

FA decision-making control system.

Work Flow

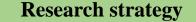
Finally, the application of Fuzzy Automata decision-making system in target control is described by examples. The simulation results show that it is faster and has better control effect for target tracking control, compared with the traditional control methods, because the control precision of the proposed Fuzzy Automata decision system.

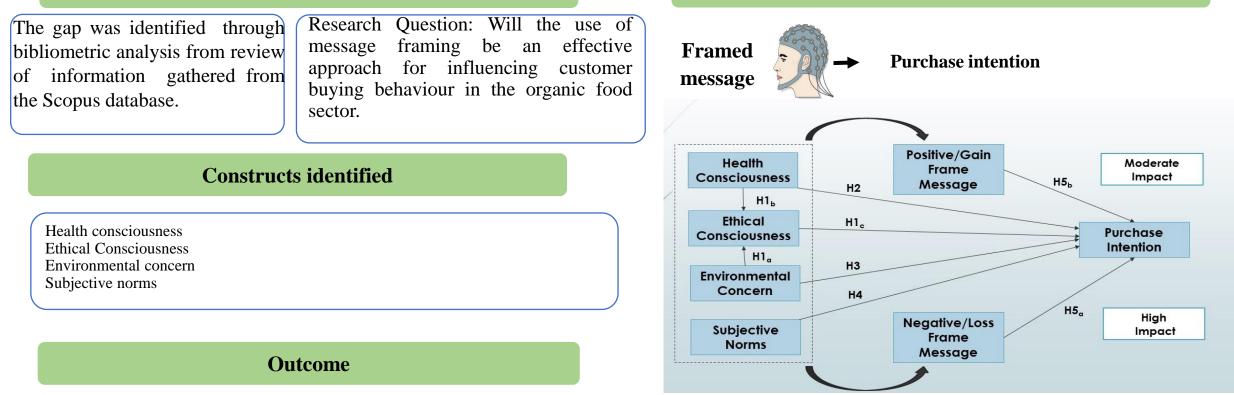
Message Framing Impact on Behavioural Intention of the Consumer in Purchase of Organic Food



Model

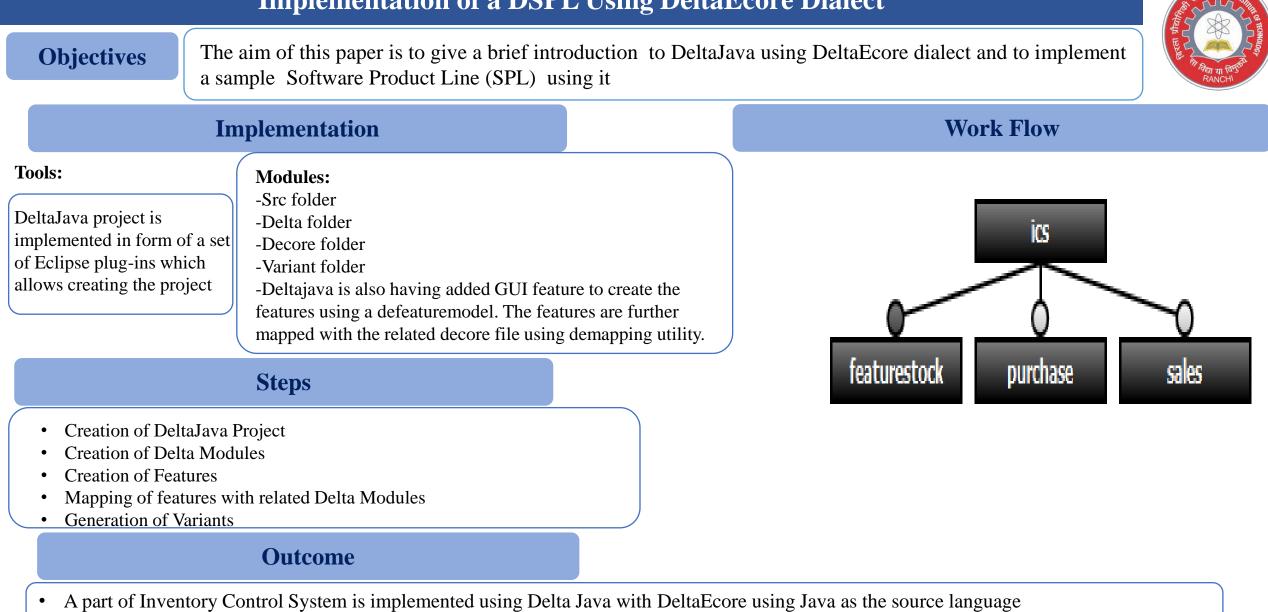
Objectives The aim of the work is to evaluate the influence of different type of message framing in influencing consumption decision for organic food.





This study gives useful insights by identifying the significance of framing effect as a critical influence which can shape and impact the purchase intention of organic food by affecting the reasoning process of consumers. The initiatives of this study propose closing the attitude-intention-behaviour gap in green consumption .

Implementation of a DSPL Using DeltaEcore Dialect



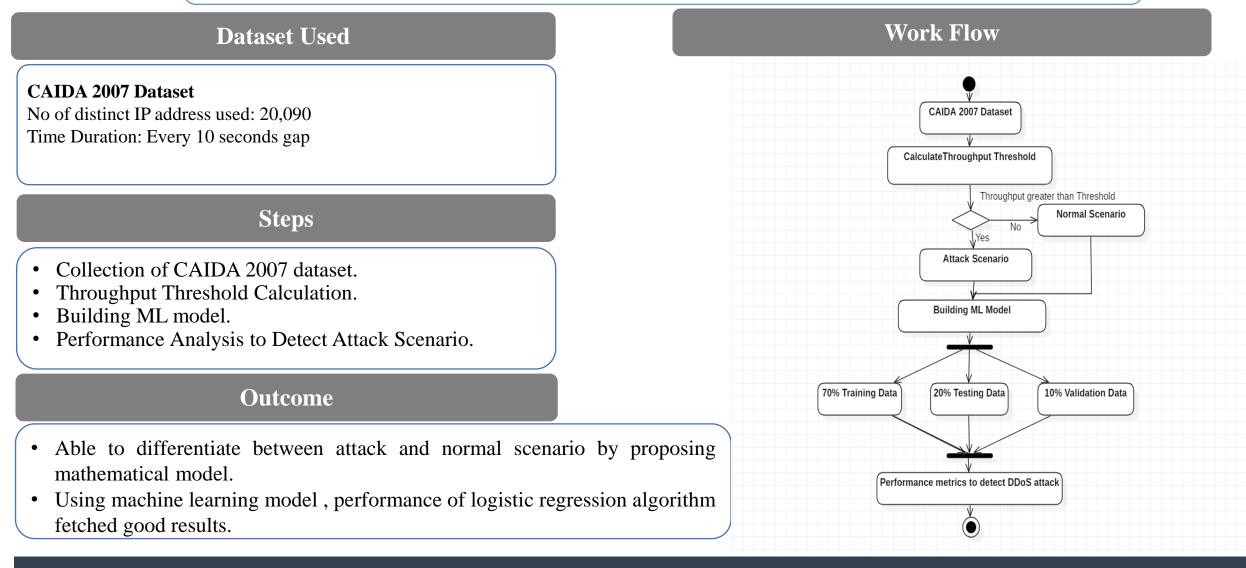
Using the DeltaEcore dialect variants can be generated conveniently. •

Detecting Denial Of Service Attacks Using Machine Learning Algorithms





The aim of the work is to determine attacks scenario using real time datasets and the performance analysis is being performed using machine learning algorithms such as logistic regression and naïve bayes.

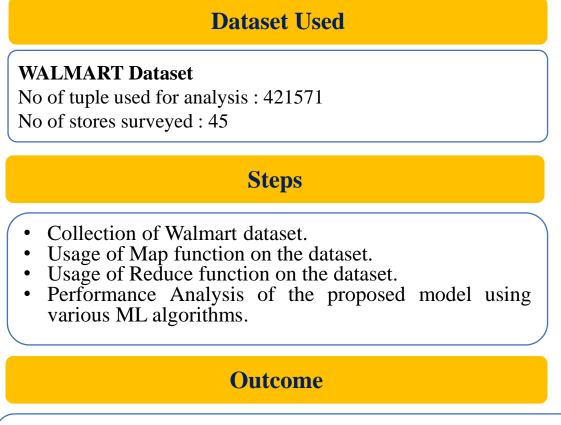


A Framework For Analysis Of Incompleteness And Security Challenges In IOT Big Data

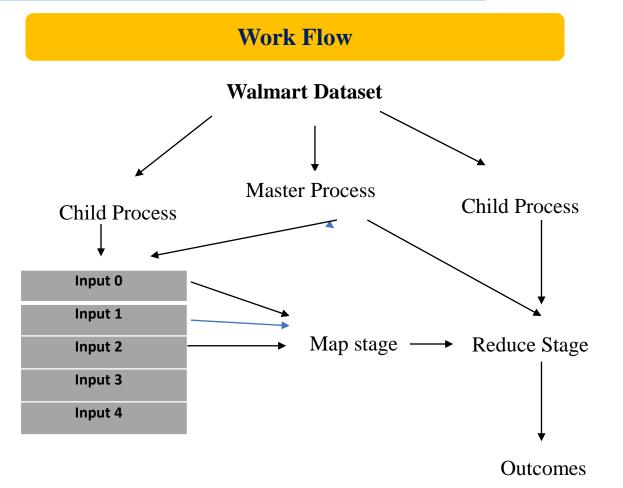


Objectives

The aim of the work is to deal with veracity as it is the need of an hour and therefore, the work in this paper is categorised into Analysis, Observation, Proposing model and testing its accuracy and performance.



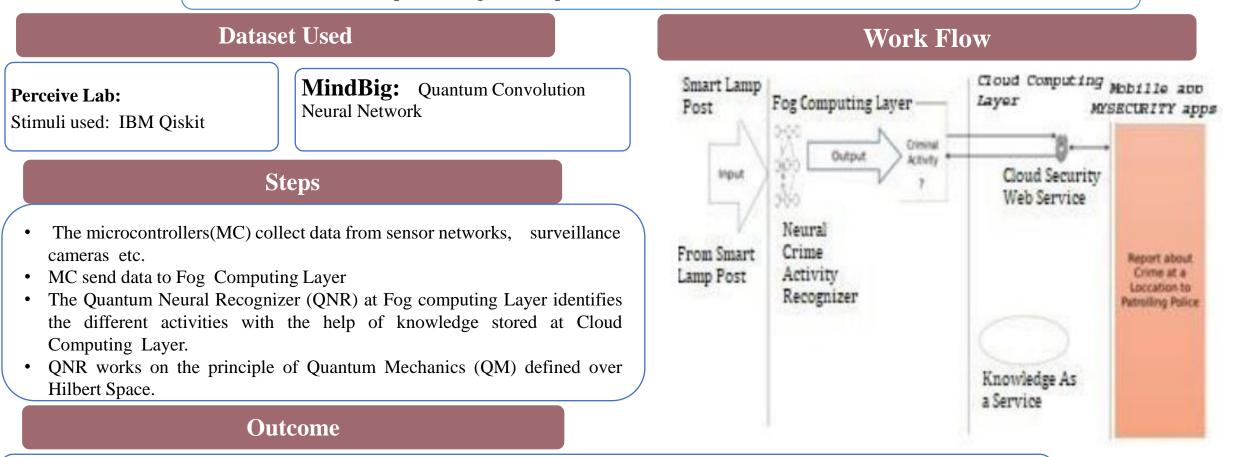
- MapReduce Techniques are successfully to deal with clusters of Walmart dataset.
- Logistic Regression fetched good results in terms of MAE and RMSE as compared to other algorithms.



A Theme of Smart Cities Based on IoT, Fuzzy Logic and Quantum Deep Learning Technique



Objectives The aim of the work is to develop an intelligent Framework to address the different services of smart cities based on Quantum Deep Learning Technique.



- If the QNR finds any criminal activity anywhere, it reports to the citizen security web service from there information migrates to Mobile App namely, "Mysecurity".
- The police officers in patrolling would log to the "MYSECURITY" apps to get continuous information about the status of the city.

BIT Mesra Extn. Campus Lalpur (Ranchi City), Jharkhand

Measuremen	t of Human Capital through Earnings Approach towards Calculating Weighted Average Cost of Capital and Economic Value Added of firms
Objectives	An attempt has been made to ascertain the book value of human capital in an organization, which goes into the calculation of the weighted average cost of capital and economic value added of the firm.
Data Used	Secondary data have been used for the purpose of research
Steps	 Step 1: Average earnings of the firm have been calculated Step 2: Capitalization rate is obtained, which is the normal rate of return for the industry concerned Step 3: When average earnings is multiplied by the normal rate of return gives the book value of human capital.
Outcomes	The capitalized value of earnings gives the total book value of the human capital. Quantifying human capital goes a long way in the calculation of the average cost of capital, which is used as a discounting factor in cash flow analysis of a firm. It also serves the calculation of economic value added of the firm, which exhibits an increase in the shareholders' fund of the firm.

BIT Mesra Extn. Campus Lalpur (Ranchi City), Jharkhand



Objectives

Explore the direct and indirect relationships between the capabilities related to IT, and between the capabilities related to supply chain and study their effects on performance.

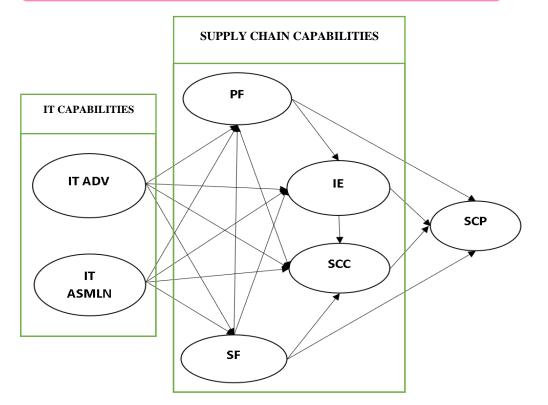
Research Methodology Adopted

- The survey employed snowball sampling technique.
- The analysis was conducted on 285 valid responses using PLS-SEM (Partial Least Square Structural Equation Modeling) through SmartPLS 3.0.

Conclusion

- Increasing use of advanced IT leads to organizations to have access to suppliers' status on various aspects thereby offers required flexibility.
- The flexibility exhibited by suppliers was found to be an important SC capability in achieving superior SC performance.
- Information exchange and suppliers' flexibility were found to be important mediators which could be leveraged by IT advancements and IT assimilation in realizing improvements in SC coordination and SC performance.

Research Model



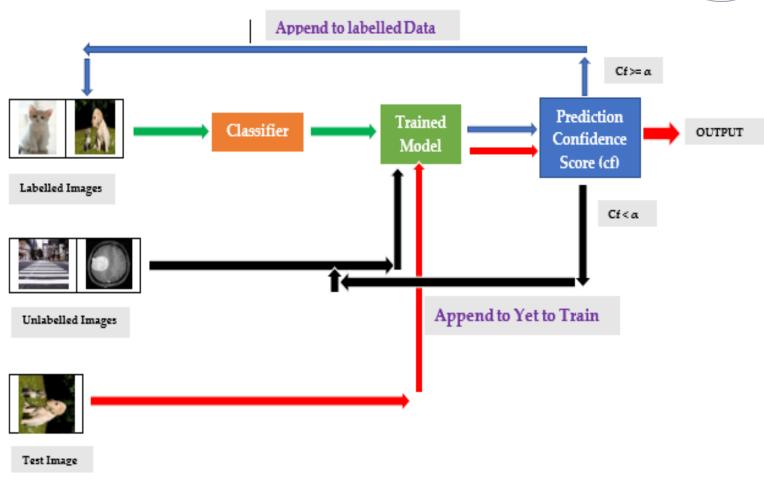
IT ADV – IT Advancement IT ASMLN – IT Assimilation PF – Production Flexibility SF – Suppliers' flexibility

IE – Information Exchange SCC – Supply Chain Coordination SCP – Supply Chain Performance



Methodology

- Train the classifier in a supervised manner using labelled data
- Generate predictions for the unlabelled data with a confidence score
- For confidence scores above a threshold, add the unlabelled data with its generated label to the train set, otherwise append them to the unlabelled set
- Iterate through the steps until labels for all the data are generated with acceptable accuracy



Some more glimpses of on-going research activities at the center.....

Determining components in Work Life balance of women employees in police department

Hunting Witchcraft in Jharkhand

Service Delivery & Technology innovation for excellence in outcome based teaching IoT in Healthcare

Disease prediction system using matrix factorization

IoT in education

Analysis on quality of work life of nurses in the state of Jharkhand, India using data analytics tools

Application of transfer learning techniques for improved classifier building

The Road Ahead.....



BITECL: Growth in research output



Upward growth in publications indicates a positive trend...

- Identification of specific funding agencies vis-a-vis identified thrust areas.
- Designing certificate/ evening time courses targeting the local requirements

Ranchi

- Infra structural Development to be completed students' common room, food court etc.
- **>** Renovation of Teaching Laboratories
- > Urgent requirement of well trained staff members to be met
- > Increased visibility by conducting workshops and seminars



BIT Mesra Extn. Centre Lalpur (Ranchi City), Jharkhand