



M. L. V. Textile & Engineering College,
Bhilwara



COMPUTER SCIENCE & ENGINEERING (IOT)

Annual Report
2023-24





Introduction

Department of Computer Science & Engineering (Internet of Things)

The Department of Computer Science & Engineering (IoT) was established in the year 2021. The department has highly qualified faculty members who shoulder the responsibility of Second, Third and Final year of the UG programs with regard to teaching the theory & Practical in all the Core & Programming language subjects. The department has well equipped Labs with Internet facilities for various UG programs.

Vision & Mission

VISION

To facilitate the transformation of students into competent computer professionals of the world with technical expertise to serve pride of our Country.

MISSION

- To impart quality education to meet the needs of the today's industrial demands and society with competent computer professionals.
- To build a bridge between computer professionals and Industry with an environment for overall personality development inculcating leadership qualities as well as research attitude for Future Growth.

Dr. Ritesh Saraswat

PROGRAM EDUCATIONAL OBJECTIVES (PEO)

PEO 1. The Graduate shall be able to pursue successfully careers as Technical Leaders and Managers, Design Engineers, Consultants, Entrepreneurs or pursue Higher Studies in Computer Science & Engineering or other related fields

PEO 2. The Graduate shall be able to learn, innovate, and evolve new technology lifelong.

PEO 3. Graduates of the program shall have professional and ethical attitude, communication skills, multidisciplinary approach and competence to relate engineering issues to broader social perspective.

PROGRAMME OUTCOMES (POS)

PO1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2. Problem analysis: Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

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PO7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

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PO11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM SPECIFIC OUTCOMES (PSOS)

PSO 1. Provide Students with core competence in mathematics, scientific and engineering fundamentals to design and implement IoT systems effectively.

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PSO 3. Inculcate students to excel in Hardware based Automation Industries, research and entrepreneurship with ethical standards.

LEARNING LEVELS AS DEFINED IN BLOOM'S TAXONOMY

**L1 REMEMBERING (R) L2 UNDERSTANDING (U) L3 APPLYING (AP)
L4 EVALUATING (E) L5 ANALYSING (A) L6 CREATING (C)**

1. Dr. Ritesh Kumar Saraswat
Assistant Professor & Head, M. Tech, PhD
Experience:16 Years Teaching Microwave Engineering and Antenna Design.



1. Neha Sharma
Assistant Teaching Associate, B. Tech, M. Tech (CSE)
Experience: 2.5 Years Teaching Interests: Image Processing, Machine Learning

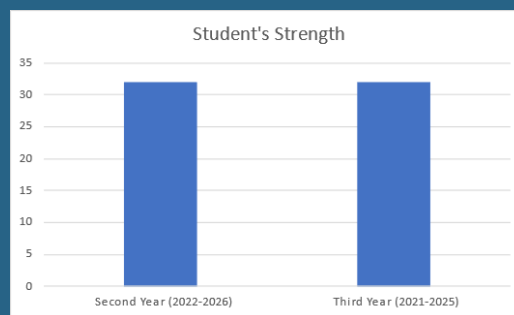
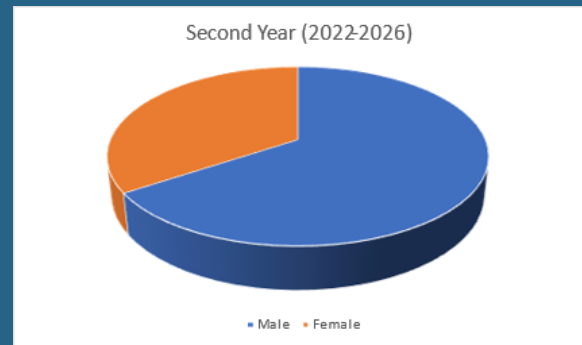
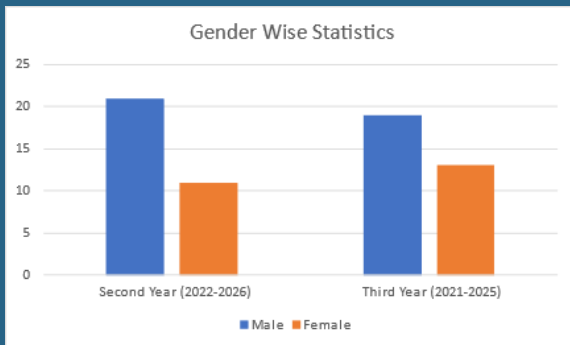


1. Komal Godwani
Guest Faculty, B. Tech, M. Tech (CSE)
Experience: 2 Years Teaching Interests: Data Mining and Software Engineering



ADMISSION STATISTICS

Year	Male	Female	Total
Second Year (2022-2026)	21	11	32
Third Year (2021-2025)	19	13	32

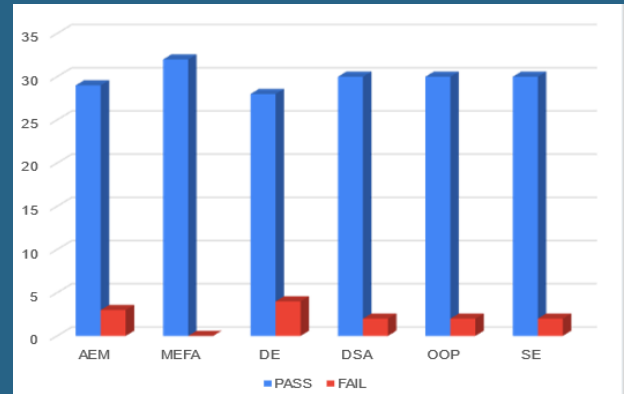


SEMESTERS' RESULTS

III SEMESTER RESULT ANALYSIS

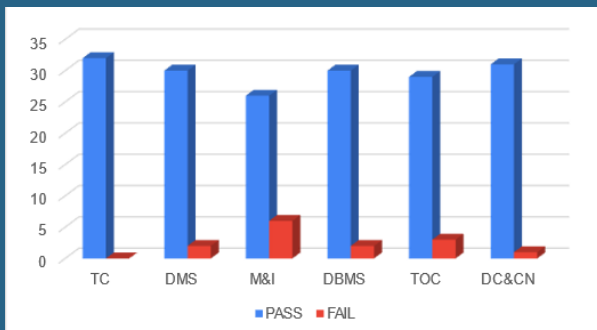
(SESSION 2022-2023)

SUBJECT	PASS	FAIL
AEM	29	3
MEFA	32	0
DE	28	4
DSA	30	2
OOP	30	2
SE	30	2



RESULT ANALYSIS

IV SEMESTER (SESSION 2022-2023)



RESULT ANALYSIS

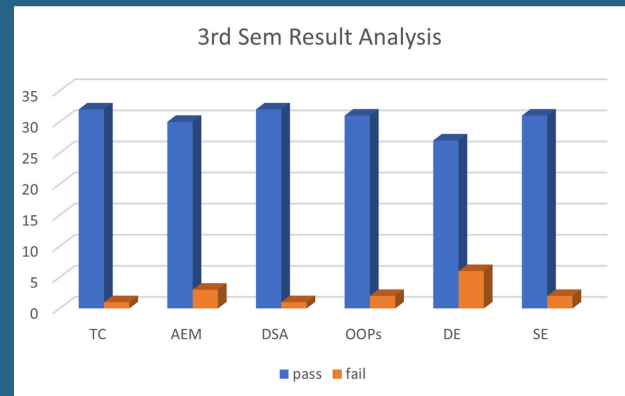
SUBJECT	PASS	FAIL
TC	32	0
DMS	30	2
M&I	26	6
DBMS	30	2
TOC	29	3
DC&CN	31	1

SEMESTERS' RESULTS

III SEMESTER RESULT ANALYSIS

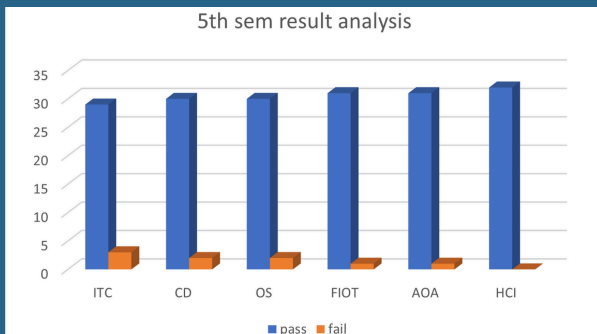
(SESSION 2023-2024)

SUBJECT	PASS	FAIL
TC	32	1
AEM	30	3
DSA	32	1
OOPs	31	2
DE	27	6
SE	31	2



RESULT ANALYSIS

V SEMESTER (SESSION 2023-2024)



RESULT ANALYSIS

SUBJECT	PASS	FAIL
ITC	29	3
CD	30	2
OS	30	2
FIOT	31	1
AOA	31	1
HCI	32	0

MENTORSHIP INITIATED

Mentor	Mentees
Komal Godwani	2nd Year
Neha Sharma	3rd Year
Dr. Ritesh Saraswat	Upcoming Final Year

STUDENT LIST

ACADEMIC YEAR: 2023-2024

III YEAR

S. No.	Name of student	Roll no.
1	Akshay singh kanawat	21EMBCY001
2	Akshita Parashar	21EMBCY002
3	Anish sharma	21EMBCY004
4	Anisha Patni	21EMBCY003
5	Anurag rai	21EMBCY005
6	Anurag Sharma	21EMBCY006
7	Anushtha sharma	21EMBCY007
8	Arpit Khandelwal	21EMBCY008
9	Arpit pandiya	21EMBCY009
10	Ayesha Sharma	21EMBCY010
11	Deepak Panchal	21EMBCY011
12	Devendra Singh Shekhawat	21EMBCY012
13	Devraj Singh Chouhan	21EMBCY013
14	Divya Tamboli	21EMBCY014
15	Divyanshi Atrey	21EMBCY015
16	Hitesh Lalwani	21EMBCY016

17	Khaldeep Singh	21EMBCY017
18	Kratika Solanki	21EMBCY018
19	Krish Maheshwari	21EMBCY019
20	Libanshi Jain	21EMBCY020
21	Manthan Sharma	21EMBCY021
22	Mihir Nebani	21EMBCY022
23	Nandani Chouhan	21EMBCY023
24	Neha Jha	21EMBCY024
25	Payal Chouhan	21EMBCY025
26	Pranjal Jain	21EMBCY026
27	Prince Jangid	21EMBCY027
28	Priyanka Kumari	21EMBCY028
29	Rajesh Jat	21EMBCY029
30	Rohit Kabra	21EMBCY030
31	Sushmita Karki	21EMBCY031
32	Vishnu Raj Jangid	21EMBCY032

II YEAR

S. No.	Name of Student	Roll no.
1	Abhishek Singh Rautela	22EMBCY001
2	Aditya Jangir	22EMBCY002
3	Anisha Parmar	22EMBCY003
4	Anjali Soni	22EMBCY004
5	Ansh Nemiwal	22EMBCY005
6	Anshul Upadhyay	22EMBCY006
7	Ashutosh Paliwal	22EMBCY007
8	Bhavika Jain	22EMBCY008
9	Bhaviraj Chundaawat	22EMBCY009
10	Deepak Patel	22EMBCY010
11	Devika Chhipa	22EMBCY011
12	Jaswant Jat	22EMBCY012

S. No.	Name of Student	Roll no.
13	Kanak Sharma	22EMBCY013
14	Krish Chhipa	22EMBCY014
15	Mayank Pant	22EMBCY015
16	Monika Lomror	22EMBCY016
17	Nikhil Soni	22EMBCY017
18	Nitesh Soni	22EMBCY018
19	Pankaj Kumar	22EMBCY019
20	Parth Joshi	22EMBCY020
21	Piyush Sharma	22EMBCY021
22	Piyush Soni	22EMBCY022
23	Pranjali Bhatt	22EMBCY023
24	Ram Dayal Meena	22EMBCY024
25	Rishabh Singh Sengar	22EMBCY025
26	Sharda Sharma	22EMBCY026
27	Tushar Daga	22EMBCY027
28	Udita Nolkha	22EMBCY028
29	Vaibhav Pathak	22EMBCY029
30	Vaibhav Soni	22EMBCY030
31	Vandana Rajotiya	22EMBCY031
32	Vinita Kanwar Balawat	22EMBCY032
33	Vijay Singh Negi	22EMBCY033

STUDENT INTERNSHIPS

Internsha
Ready Bytes Software Labs Pvt. Ltd., Bhilwara
Great Learning
INNOVATECHS
Udemy
Code Planet Technologies, Jaipur

IIT Kanpur
Cybrom Technology Pvt. Ltd.
Alfa (Apna College)

Department motivates and encourages students for self-learning for acquiring skills, required in Software/IOT Industry.

STAR PERFORMERS 2022-23

III SEM

Sr. No.	Session	Name	SGPA
1	2022-23	Libanshi Jain	9.53
2	2022-23	Kratika Solanki	9.52

IV SEM

Sr. No.	Session	Name	SGPA
1	2022-23	Sushmita Karki	9.09
2	2022-23	Anisha Patni	9.02

STAR PERFORMERS 2023-24

III SEM

Sr. No.	Session	Name	SGPA
1	2023-24	Udita Nolkha	9.12
2	2023-24	Anisha Parmar	8.9
3	2023-24	Vaibhav Soni	8.9

V SEM

Sr. No.	Session	Name	SGPA
1	2023-24	Priyanka Kumari	9.74
2	2023-24	Kratika Solanki	8.9
3	2023-24	Anisha Patni	8.9

WORKSHOPS AND SEMINARS

1. Computer Science Engineering (IoT) department has organised a workshop on “Azure DevOps and benefits of software development and project management” on March,16 2024 by expert Mr. Sourabh Somani Module Lead.



INDUSTRIAL TRAINING

Date	Topic	Time	Venue	Faculty/Tas
07/08/2023	Introduction of CSE-IOT Department (Mission, Vision, POs, PSOs, achievements)	10:00 AM – 01:00 PM	Communication Lab	Mr. Ritesh Kumar Saraswat
	CSE Lab Visit	02:00 PM – 04:00 PM	Communication Lab	Mr. Ritesh Kumar Saraswat
08/08/2023	Introduction to IOT	10:00 AM – 01:00 PM	ICT Lab	Mrs. Komal Godwani
	IOT Lab Visit	02:00 PM – 04:00 PM	ICT Lab	Mrs. Komal Godwani
10/08/2023	Overview of ARDUINO kit	10:00 AM – 01:00 PM	ICT Lab	Mrs. Neha Sharma
	Analog Electronics Lab Visit	02:00 PM – 04:00 PM	ICT Lab	Mrs. Neha Sharma
11/08/2023	Introduction of C, Characteristics of C	10:00 AM – 01:00 PM	ICT Lab	Mrs. Neha Sharma

	Coding Lab (Programming in C)	02:00 PM – 04:00 PM	ICT Lab	Mrs. Neha Sharma
14/08/2023	Digital Electronics	10:00 AM – 01:00 PM	ICT Lab	Mrs. Komal Godwani
	Coding Lab (Programming in C)	02:00 PM – 04:00 PM	ICT Lab	Mrs. Komal Godwani
16/08/2023	Data types, variables, Identifiers,	10:00 AM – 01:00 PM	ICT Lab	Mrs Amisha Sharma
	Coding Lab (Programming in C)	02:00 PM – 04:00 PM	ICT Lab	Mrs Amisha Sharma
17/08/2023	Repeat Functions, Pointers	10:00 AM – 01:00 PM	ICT Lab	Guest faculty
	Cadence Software	10:00 AM – 01:00 PM	ICT Lab	Guest faculty
18/08/2023	Basic structure of C, Format specifiers	10:00 AM – 01:00 PM	ICT Lab	Guest faculty

	Coding Lab (Programming in C)	02:00 PM – 04:00 PM	ICT Lab	Guest faculty
19/08/2023	5G Technology	10:00 AM – 01:00 PM	ICT Lab	Guest faculty
	Introduction of Goggle drive/Classroom/NP TEL Online courses, HFSS Software	02:00 PM – 04:00 PM	ICT Lab	Guest faculty
21/08/2023	Mini Project	10:00 AM – 01:00 PM	ICT Lab	Guest faculty
	MATLAB Software	02:00 PM – 04:00 PM	ICT Lab	Guest faculty
22/08/2023	MS Office/MS word/Google Docs	10:00 AM – 01:00 PM	ICT Lab	Guest faculty
	Quiz	02:00 PM – 04:00 PM	ICT Lab	Guest faculty
23/08/2023	Mini Project Evaluation	10:00 AM – 01:00 PM	ICT Lab	Guest faculty

ACHIEVEMENTS OF STUDENTS

1. The Computer Science Engineering (IoT) department at our institution has achieved remarkable success, notably through the efforts of students like Krish Maheshwari, who spearheaded the organization of the district-level hackathon, OpenHack 2024 on 24th February-25th February, 2024. As the technical head of the organizing team, Krish and his partner in Technical Team Tushar Daga demonstrated exceptional leadership and organizational skills, ensuring the event's success. Furthermore, the CSE department's prowess was further highlighted by the outstanding performance of its students in the hackathon. The champions of OpenHack 2024, Anisha Patni, Devendra Singh Shekhawat, and Anish Sharma, showcased their innovation and technical acumen, securing the top position. Additionally, the department's talent was evident with the runners-up, Pranjal Jain, Libanshi Jain, and Mihir Nebani, displaying their skills and dedication, further solidifying the department's reputation for excellence in the field of technology and innovation.



2. Two bright students from our department, Krish Maheshwari and Libanshi Jain, recently participated in the Build-Your Startup Workshop organized by IIEC IIT Gandhinagar from 28th October to 1st November, 2024 where they had the privilege of learning from renowned entrepreneur and speaker BV Jagadeesh. Throughout the workshop, they delved into various aspects of entrepreneurship, gaining insights into its challenges through insightful case studies. Furthermore, they attended a seminar on AI & its Impact on the Future, hosted by IBM at its state-of-the-art campus in GIFT City, Gujarat. The enriching experience also included a mentorship session at I-CREATE, Gujarat. Their four-day learning adventure was made possible through sponsorship by TEAM, awarded on a merit basis. Additionally, Pranjal Jain and Hitesh Lalwani from our department also accompanied them, demonstrating their eagerness to explore and engage in valuable learning experiences.



3. In our department, students are actively involved as developers for the Student Activity Group's web app from 2022 Onwards and has launched 3 versions till date. Led by Krish Maheshwari, who now serves as the Project Lead and Full Stack Developer, the team comprises Pranjal Jain and Devendra Singh, handling frontend development, while Anisha Patni in backend tasks. Libanshi Jain contributes her part as the UI/UX Designer. Together, they have crafted an intuitive app that enables students to seamlessly access information about events, newsletters, and various clubs within the Student Activity Group. Their collaborative efforts reflect their dedication to enhancing the student experience through innovative technology solutions.

4. Our department's students made significant contributions to the SPARKLE MAGAZINE, commemorating the college's 35th anniversary on 17th March 2024. Krish Maheshwari, a third-year student, authored a compelling technical article envisioning the future of web development in the AI era. Meanwhile, Hitesh Lalwani shared his literary talent through captivating stories and poems. Abhishek Rautela from II year contributed with article on UPI Payments and diverseness. Devika Chippa & Piyush Soni from II year contributed in the art category. Piyush Sharma from Ist year contributed in the poetry with a poem on Friendship. Their

Can AI replace Web Developers ?

In the world of web development, there's been a lot of talk about Artificial Intelligence (AI) stepping into our shoes. Some worry it might replace us entirely. But let's take a step back and see the bigger picture.

Sure, AI is amazing at crunching numbers and handling repetitive tasks faster than we ever could. But there's something it lacks - that human touch, that spark of creativity that makes each website unique and engaging.

Think about it: what makes a website memorable? It's not just the lines of code; it's the experience it offers, the way it solves problems, and the emotions it evokes in users. That's where we, as human developers, shine.

So, instead of seeing AI as a threat, let's see it as a partner. AI can help us automate tedious tasks, analyze data to understand user behavior, and even suggest improvements. But when it comes to creativity and problem-solving, that's where we come in.

We're the ones who dream up innovative designs, who tailor experiences to suit different audiences, and who understand the intricate nuances of human interaction. AI can't replicate that - at least not yet.

Imagine having a tool that takes care of the boring stuff, leaving us more time to focus on what we do best: bringing ideas to life and crafting exceptional digital experiences.

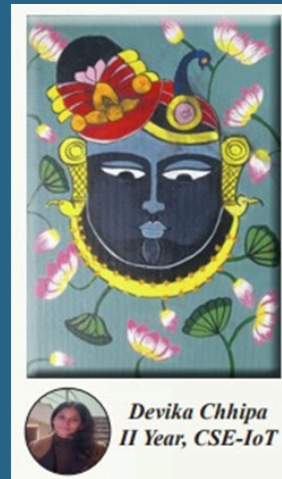
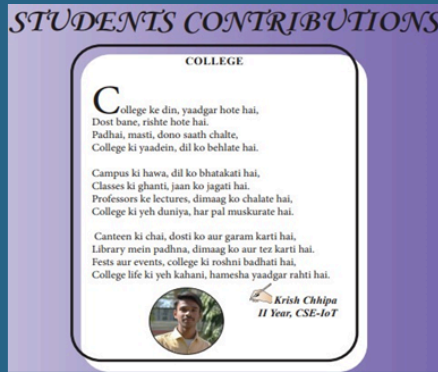
In today's landscape, AI isn't capable of building end-to-end solutions on its own. That's where our expertise comes in. By continually improving our skills and staying ahead of the curve, we're equipped to handle any challenges that come our way.

In the end, it's not about AI versus human developers; it's about collaboration. By embracing AI as a teammate rather than a rival, we can push the boundaries of what's possible in web development.

So, let's welcome AI with open arms, harness its potential, and continue to unleash our creativity to shape the future of the web. Together, there's no limit to what we can achieve.

Krish Maheshwari
 Captain, Tech Buzz Club
 III Year CSE-101





diverse contributions enriched the magazine, showcasing the depth of talent and creativity within our student community. The SPARKLE Magazine was designed and compiled by Krish Chippa from II year.

5. Many students from 2nd year and 3rd year CSE (IOT) have taken part in our college cultural events Gaieity, 2024 and have come up with flying colors with certificates.



Event Name	Winners
Beatz Crew	Devika Chhipa Piyush Soni Vandana Rajotiya Kanak Sharma Nikhil Soni
Master of Fireless	Hitesh Lalwani and team

6. Students of 3rd CSE (IOT) had done NPTEL SWAYAM courses in which 2 students have achieved certificate.

Sr. No.	Topic	Name	Roll No.
1	Programing in modern C++	Libanshi Jain	21EMBCY203
2	Programming, Data Structures and Algorithms Using Python	Pranjal Jain	21EMBCY26



7. Our Student from 3rd year CSE IOT has been qualified in Gate exam held in year 2024.

Sr. No.	Gate Score	Name	Rank
1	353	Libanshi Jain	17309

