

MAY-JUNE 2023

THE DEPARTMENT CHRONICLE

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



SHRI
RAMSWAROOP
MEMORIAL
UNIVERSITY

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

OUR VISION

To build our students to be among the top technocrats in the country, reshaping society in a more modern way.

OUR MISSION

To develop, circulate, and use computer science knowledge, including in interdisciplinary fields that broaden its application and benefit humanity; to teach students to be successful, moral, and effective problem-solvers and lifelong learners who will improve the economic well-being of our region and country and who are equipped to take on the challenging challenges of the 21st century.

IN THIS EDITION

(COVERS ALL THE
HIGHLIGHTS FROM
THE MONTH OF SEPTEMBER)

- OUR PATRONS
- FACULTY COLUMN
- STUDENT COORDINATORS
- PROGRAMS OFFERED BY THE DEPARTMENT
- NOVATHON FINALIST
- DEPARTMENT DECORATION
- STUDENT FELICITATION
- UMANG DAUD
- PATENTS

—
“THE ADVANCE OF TECHNOLOGY IS
BASED ON MAKING IT FIT IN SO
THAT YOU DON'T REALLY EVEN
NOTICE IT, SO IT'S PART OF
EVERYDAY LIFE.”

BILL GATES, Co-FOUNDER OF
MICROSOFT.

—



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,d,a)!==c});if(b.nodeType) return d.getAttribute(a);
(a){return"function" ===d.type(a),isArra
rn void 0 ===b||ca.call(a,b)},type:function(
,e=b.apply(a[d],c),!1===e)break;else if(e)
){for(var c=+b.length,e=0,d=a.length;c<=e
),e=function(){return a.apply(b||this,c)};f=
f=b.getElementById(h)&&f.parentNode();
";for(h=i.length;h--;)i[h]=f+ra(i[h]);
for(var c=a.split("|"),e=a.length;i-->0);c
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OUR PATRONS

DEDICATED TO THOSE SOULS
WITHOUT WHOM WE WOULDN'T
HAVE BEEN LIVING THE SAME SRMU
LIFE.



Shri Pankaj Agarwal
Hon. Chancellor



Smt. Pooja Agarwal
Hon. Pro-Chancellor



Prof. (Dr.) D. K. Sharma
Hon. Vice Chancellor

CO-PATRON



Dr. Neerja Jindal
Registrar

FACULTY COLUMN



**DR. SATYA BHUSHAN
HEAD OF DEPARTMENT(HOD)
CSE DEPARTMENT**

**ER. VISHAL BHATT
ASSISTANT PROFESSOR**



**ER. NITIN GOEL
ASSISTANT PROFESSOR**

**ER. ANUPAM SINGH
ASSISTANT PROFESSOR**





**ER. NEETA BHUSAL SHARMA
ASSISTANT PROFESSOR**

**ER. NEELESH MISHRA
ASSISTANT PROFESSOR**



**ER. NEERAJ KUMAR
ASSISTANT PROFESSOR**



**ER. SUNNY KUMAR
ASSISTANT PROFESSOR**





**ER. PRABHA SINGH
ASSISTANT PROFESSOR**



**ER. BHANU DWIVEDI
ASSISTANT PROFESSOR**



**ER. ADITYA PRATAP SINGH
ASSISTANT PROFESSOR**

**ER. ARCHANA SINGH
ASSISTANT PROFESSOR**





**MR. SHIVAM
IBM SME**

**EMR. GUNJAN MISHRA
Assistant Professor**



**ER. AVANTIKA
ASSISTANT PROFESSOR**

**Ms. DIKSHA
ASSISTANT PROFESSOR**





Ms. Abhilasha
Assistant Professor

Ms. ARPITA VISHWAKARMA
ASSISTANT PROFESSOR



Mrs. Atifa Praveen
Assistant Professor



STUDENT CO-ORDINATORS



PRAYORSHI MISHRA
B.TECH (CSE)
III YEAR



SHASHWAT SAHU
B.TECH (CSE)
III YEAR



AKANKSAH TIWARI
B.TECH (CSE)
III YEAR



STUDENT CO-ORDINATORS



VAIBHAV PRATAP SINGH
B.TECH (CSE)
III YEAR



ELEEN VERMA
B.TECH (CSE)
III YEAR



PROGRAMS OFFERED BY THE DEPARTMENT

COURSES	DURATION
B.TECH IN COMPUTER SCIENCE & ENGINEERING	4 YEARS
B.TECH IN CSE IN CLOUD COMPUTING AND ARTIFICIAL INTELLIGENCE	4 YEARS
B.TECH IN CSE IN DATA SCIENCE AND ARTIFICIAL INTELLIGENCE	4 YEARS
B.TECH IN CSE IN CYBER SECURITY	4 YEARS
B.TECH IN CSE IN BLOCKCHAIN	4 YEARS
B.TECH IN COMPUTER SCIENCE & ENGINEERING LATERAL ENTRY	3 YEARS
B.TECH + MBA IN COMPUTER ENGINEERING & APPLICATIONS	5 YEARS
B.TECH + M.TECH IN COMPUTER ENGINEERING & APPLICATIONS	5 YEARS
M.TECH IN COMPUTER SCIENCE & ENGINEERING	2 YEARS
M.TECH IN COMPUTER SCIENCE & ENGINEERING PART -TIME	3 YEARS
M.TECH IN DATA SCIENCE	2 YEARS
PHD COMPUTER SCIENCE & ENGINEERING	3 YEARS



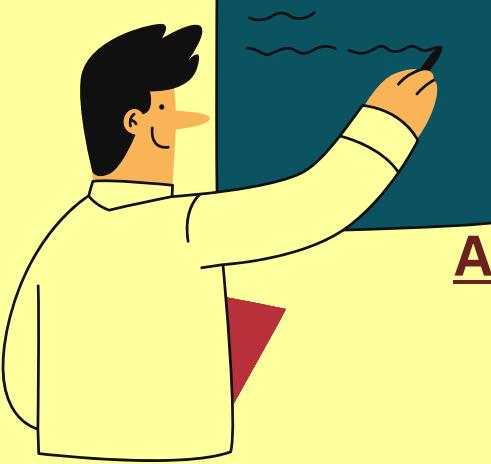
HIGHLIGHTS FROM THE MONTH OF MAY-JUNE

INDUSTRIAL VISIT: INFOSEEK



- **ON MAY 15, 2023, SECOND-YEAR STUDENTS, ACCCOMPANIED BY FACULTY MEMBERS ER. PRABHA SINGH AND ER.ARCHANA SINGH, EMBARKED ON AN INSIGHTFUL INDUSTRIAL VISIT TO INFOSEEK LOCATED IN LUCKNOW, UTTAR PRADESH, INDIA.**
- **THE VISIT AIMED TO BRIDGE THE GAP BETWEEN THEORETICAL KNOWLEDGE AND PRACTICAL APPLICATIONS BY PROVIDING STUDENTS WITH A FIRSTHAND UNDERSTANDING OF THE INDUSTRY'S OPERATIONS. THE INTERACTION WITH EXPERIENCED PROFESSIONALS ALLOWED FOR VALUABLE INSIGHTS INTO INDUSTRY CHALLENGES AND STRATEGIES.**
- **INFOSEEK IS A RENOWNED MANUFACTURING ENTERPRISE KNOWN FOR ITS COMMITMENT TO EXCELLENCE AND CUSTOMER SATISFACTION. DURING THE VISIT, STUDENTS WERE GUIDED THROUGH VARIOUS DEPARTMENTS, WITNESSING ADVANCED TECHNOLOGIES, MANUFACTURING PROCESSES, QUALITY CONTROL MEASURES, AND LOGISTICAL OPERATIONS.**
- **THE INTERACTION WITH EXPERIENCED PROFESSIONALS ALLOWED FOR VALUABLE INSIGHTS INTO INDUSTRY CHALLENGES AND STRATEGIES. OVERALL, THE VISIT PROVED TO BE AN ENRICHING EXPERIENCE, BROADENING STUDENTS' PERSPECTIVES AND INSPIRING THEM TO EXCEL IN THEIR CHOSEN FIELDS. THE FACULTY MEMBERS EXPRESSED THEIR GRATITUDE TO INFOSEEK FOR THEIR SUPPORT AND COMMITMENT TO FOSTERING KNOWLEDGE-SHARING.**





An Innovative Approach for Securing Digital Audio Signals: Striking a Balance in the Magic Triangle



- In his paper published in the International Journal for Research in Applied Science & Engineering Technology (Volume 11, Issue V, May 2023), Mr. Neeraj Kumar presents an innovative and imperceptible technique for securing digital audio signals.
- The approach aims to strike a balance among the parameters of the Magic Triangle—imperceptibility, robustness, and capacity—ensuring secure audio transmission without compromising the original content's quality. This research holds promising implications for applications in secure communication, copyright protection, and data hiding.



Machine Learning for Lung Disease Diagnosis: A Review in "Automation And Computation" by Dr. Satya Bhushan

The image shows the front cover of a book titled "AUTOMATION AND COMPUTATION". The cover features a large, stylized wireframe globe or network structure. At the top, it says "Chapter" and at the bottom, it says "Automation and Computation". Below the title, it lists the editors: Sudhir Kumar Chaurasiya, Nitish Kumar, Satya Bhushan Verma, Anshita Raj, and Shobhit Sinha. The publisher's logo, "Oxford University Press", is visible at the bottom right. The background of the book cover is black.

A review on lung disease diagnosis using machine learning

By Sudhir Kumar Chaurasiya, Nitish Kumar, Satya Bhushan Verma, Anshita Raj, Shobhit Sinha

Book [Automation and Computation](#)

- Dr. Satya Bhushan's book, "Automation And Computation" (1st edition), features a concise review on the application of machine learning in diagnosing lung diseases.
- The review explores the use of machine learning algorithms to analyze lung images, such as X-rays and CT scans, for accurate disease identification.
- This resource offers valuable insights for researchers and healthcare professionals interested in leveraging machine learning for improved lung disease diagnosis.



Secure Color Image Encryption and Decryption Techniques:by

Dr. Satya Bhushan

The book cover for "AUTOMATION AND COMPUTATION" is displayed. The title is at the top, followed by the authors' names. The background features a geometric wireframe dome structure. The publisher's logo, Cengage, is at the bottom right.

Encryption and decryption
technique in optically transformed
color images

*By Satya Bhushan Verma, Manish Maurya, Nidhi
Tiwari, Kartikesh Tiwari, Sandesh*

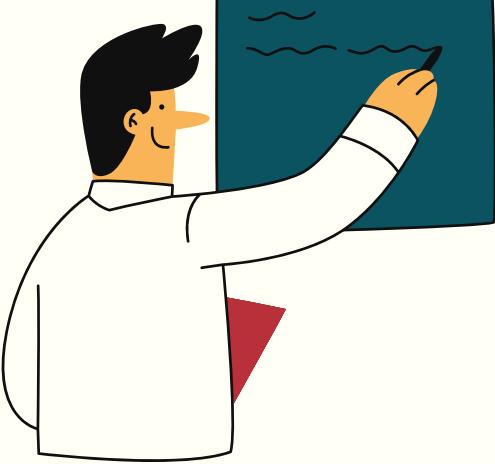
- Dr. Satya Bhushan's book, "Automation And Computation" (1st edition), presents an in-depth exploration of encryption and decryption techniques in optically transformed color images.
- The research delves into the principles of optical transformations and investigates various encryption algorithms to ensure robust security for color images. By examining the interplay between optical transformations and encryption, the book provides valuable insights for researchers and professionals working in the field of image security.
- This comprehensive study contributes to the advancement of image encryption methods and offers practical approaches for securing sensitive color image data.



Embracing the Future



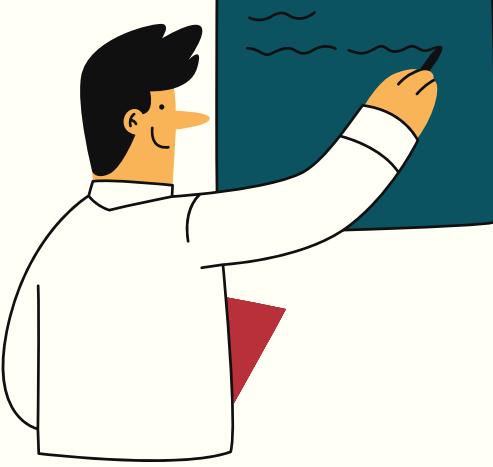
The students have organized a group photoshop event on June 7th, 2023, where they will capture their friendship and shared experiences through creative photography and digital editing. As they prepare to embark on their professional paths, we extend our warmest wishes to these talented individuals for a bright and successful future.



Advancing Applied Intelligence and Sustainable Computing: Highlights from ICAISC-2023



- Shri Dharmashala Manjunatheshwara College of Engineering and Technology organized the IEEE International Conference on Applied Intelligence and Sustainable Computing (ICAISC-2023) in Dharwad on 16th-17th June 2023.
- Dr. Satya Bhushan Verma was commended for their exceptional contribution as a REVIEWER, significantly enhancing the conference's quality and impact. ICAISC-2023 facilitated collaboration, knowledge exchange, and showcased the latest advancements in applied intelligence and sustainable computing, reinforcing the college's reputation as an influential institution in engineering and technology education.

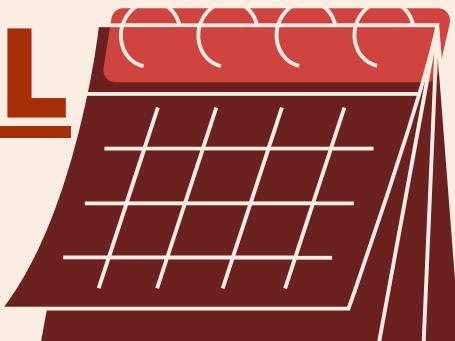


Farewell to B.Tech CSE 4th Year Students



B.Tech CSE 4th year students bid farewell to their college days on May 31st, 2023, marking the end of an incredible journey. The farewell ceremony was filled with nostalgia and gratitude as students expressed their appreciation to faculty and staff members.

DEPARTMENTAL CALENDAR



Date	July	August	September	October	November	December	January	February	March	April	May	June
1	Load Chart	Class Commencement	New Students Induction Programme/Internal Test-I	Internal Test-II	Internal Test-III	End Term Examination (Theory & Practical)	Sunday					End Term Examination (Theory & Practical)
2	FDP*	Registration	New Students Induction Programme/Internal Test-I	Sunday			Result Moderation/Time Table/End Term Examination			Sunday		
3	Sunday	Registration	New Students Induction Programme/Internal Test-I	SRAC/TA-1(First Year)			Result /FDP					
4	DAP	Daily Attendance	Sunday	SRAC	Sunday	End Term Examination (Theory & Practical)/IT-3 First Year	Result /FDP					Sunday
5	FDP	Daily Attendance	Placement Meeting				FDP/Course Plan/End Term Examination	Sunday	Sunday			
6	FDP/New VC Brochures	Meeting with new faculties	TA-1	Sunday			FDP/Course Plan/End Term Examination					
7	FDP/New VC Brochures	Sunday	VAC Brochure	CC Mark	Electives Report/ 2nd IT(First Year)	Sunday	Sunday					Sunday
8	FDP/New VC Brochures	Workshop Brochure	VAC Registration	Review Meeting /Dharohar	Confidentiality (IT-1) First Year		FDP/Course Plan/End Term Examination					
9	Library Books		CC Mark	Sunday	Confidentiality (IT-2) First Year		Sunday	Holi Break	Sunday			
10	Sunday	Student Faculty Achievements	Guest Lecture	Release Conference Brochure	Student Faculty Achievements/2nd IT(First Year)	Sunday	End Term Examination (Practical & Theory) First Year					Sunday
11	Infra Follow Up				CC Mark		End Term Examination (Practical & Theory) First Year					
12	Faculty Interviews	Mass Bunk Report	Student Faculty Achievements	Feedback	Dept Meeting/2nd IT(First Year)		Examination (Practical & Theory)	Sunday	Sunday			
13	Faculty Interviews	Fee Defaulter Notification	Value Added Course	Feedback	Sunday	End Term Examination (Theory & Practical)	End Term Examination (Practical & Theory) First Year					Sunday
14	Result Moderation	Sunday	Value Added Course	Industry Visit	Remedial Classes/Fee Defaulters		End Term Examination (Practical & Theory) First Year					
15	Result Moderation	Independent Day	Value Added Course/Course/Class Commencement First Year	Industry Visit	Remedial Classes		Sunday	Internal Test-I	Internal Test-II			
16	ERP Tagging/Dharohar	SRMU Connect	Value Added Course	Sunday	Remedial Classes	Sunday	Internal Test-I	Internal Test-II	Sunday			Sunday
17	Sunday	Workshop/Non Reporting Students/Non Reporting Students/Last Date Academic Registration in The Department	Elective Choice Filling	Lab Quiz	Evaluation/Lab Finalization (Theory & Practical/Finalization)		Sunday	Sunday	Sunday			
18	Summer Break	SRMU Connect	Sunday	Conference Plan	Lab Quiz/Finalization of Internal Evaluation		Sunday	Sunday	Sunday			
19	Summer Break	SRMU Connect	Fee Defaulter Notification	TA-3/Feedback	Lab Quiz/Internal Finalization	Evaluation/Lab Finalization (Theory & Practical/Finalization)	Sunday	Sunday	Sunday			Sunday
20	Summer Break	IT-1 Schedule/SRMU Connect	Mass Bunk Report	Lab Monitoring	Sunday		Internal Test-I					
21	Summer Break	Sunday	TA-2/Lab Monitoring	Class Coordinator Meeting								
22	Summer Break	Fee Defaulter Notification/SRMU Connect	Conference Plan Approval	Placement Meeting		Evaluation/Lab Finalization (Theory & Practical/Finalization)						Summer Break
23	Summer Break	Class Coordinator Meeting/SRMU Connect	IT Question papers	Sunday								
24	Sunday	TA-1/Lab Monitoring/SRMU Connect	Dept Meeting/First Notification to the Non-Reporting Students									
25	Time-Table	IT Question papers/SRMU Connect	Sunday			Evaluation/MGPA/Non Reporting Students/Last Date Academic Registration in The Department						Sunday
26	Infra Follow Up	Dept Meeting/SRMU Connect										
27	Course Files	SRMU Connect										
28	Course Plans	Sunday				MGPA/Non Reporting Students/Last Date Academic Registration in The Department						Summer Break
29	Committees											
30	Dept Meeting	Internal Test-I										

"I'm so organized. I never screw up. I've done it maybe twice before. I check my calendar seven times a day."

- Anna Paquin