VOLUME 18 2022-2023



### ELITE

2K23

DEPARTMENT OF INFORMATION TECHNOLOGY

ELITE

SIR C.R.REDDY COLLEGE OF ENGINEERING

ELURU

### OFFICE BEARERS



Sri AV.Subrahmanyam Vice-President



Sri Kodali Venkata Subba Rao Joint Secretary



Sri Alluri Indra Kumar President



Dr. M.B.S.V.Prasad Secretary



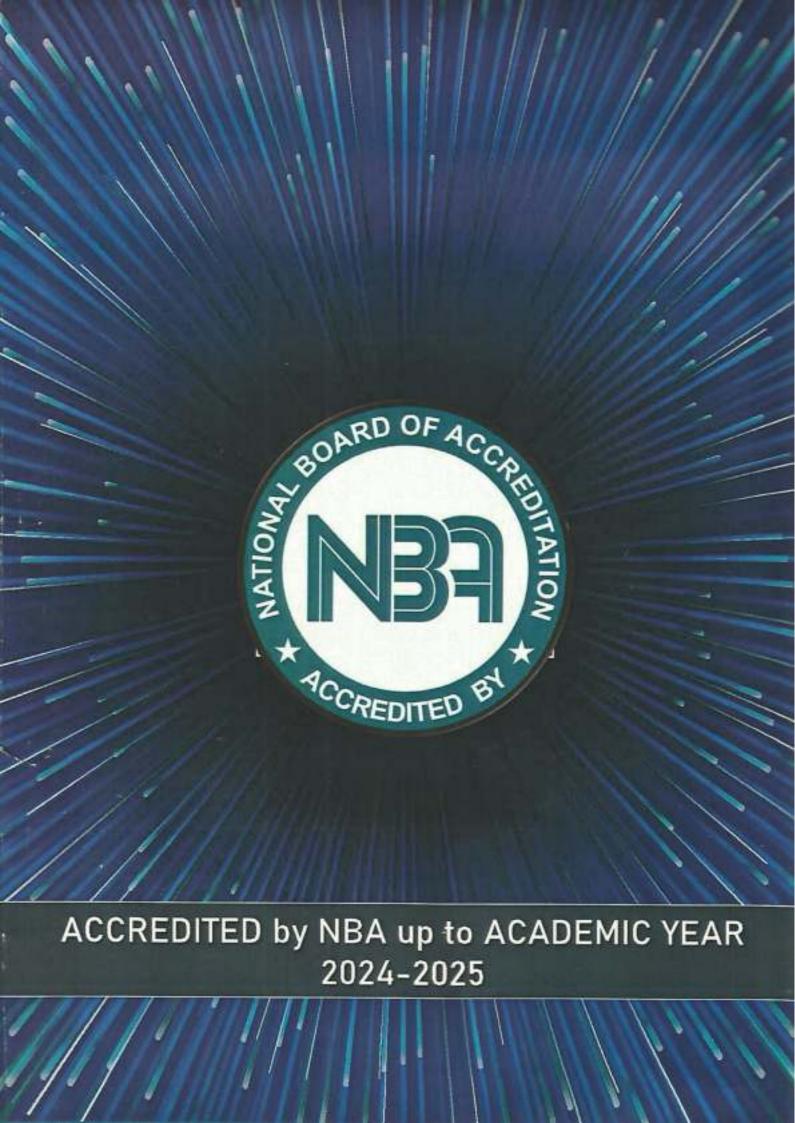
Sri Ch.Janaki Ramayya Treasurer



Dr. V.V.Balakrishna Rao Vice-President



Sri Vallabhaneni Sri Krishna Joint Secretary



### PRINCIPAL MESSAGE

Greetings! It brings me immense pleasure to address the readers of our brochure. As you all know, engineers are not just individuals who possess technical skills to execute tasks efficiently, but they are also equipped with the knowledge and wisdom to make the right decisions. At Sir C.R.Reddy, we strive to provide an engineering education that keeps up with the fast-paced changes happening in the industry, business, and society. In doing so, it becomes our responsibility to optimize the interface between our students and faculty. We firmly believe in promoting and nurturing leadership qualities in both our faculty and students, which will help them excel in their respective fields. To achieve this goal, we encourage our engineering



It's imperative for our students to realize that creating connections and forging strong partnerships in the global society is crucial for their success as they play a pivotal role as stakeholders in this ever-changing world. Our college is equipped with state-of-the-art facilities, laboratories, and a well-stocked library that provide students environment conducive to learning and research. We also offer a range of cocurricular activities, sports. cultural events that provide students with opportunities to develop their talents and interests. At Sir C.R. Reddy of Engineering, we committed to creating a community of lifelong learners who are equipped with the knowledge, skills, and values needed to make a positive impact on society. I welcome you to our institution and invite you to join us on this exciting journey of discovery, learning, and growth.

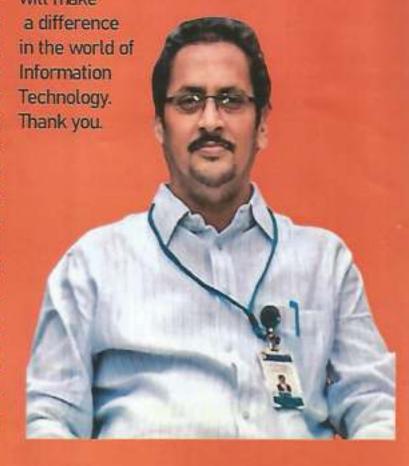
In conclusion, at Sir C.R.Reddy, we are committed to providing the best engineering education to our students and fostering an environment that encourages them to become leaders who can make a positive impact in the world. Thank you for your attention, and we look forward to welcoming you to our institution.

### HOD MESSAGE

I am delighted to have the privilege of serving as the head of the Department of Information Technology at Sir C.R. Reddy College Engineering of since establishment in 2000 Our department offers a B.Tech program in IT, and I take pride in leading a team of highly experienced and motivated faculty members who are dedicated to nurturing the young minds of our students for global competition. Our department is home to well-qualified and competitive faculty members who are committed to preparing our students to become the best software professionals, project managers, system analysts, team leaders, and entrepreneurs in their own innovative way. We are committed to combining excellence in education with service to the industry and society, and we strive to provide students with a balance intellectual and practical experiences that enable them to serve a variety of societal needs. Our vision is to be recognized as an innovative and leading Information Technology department, and we work hard towards that goal. We believe that our department's

success lies in our ability to nurture attitude of self-reliance. confidence, commitment. and responsibility towards OUL motherland that we are proud to serve. I am confident that the students of our department will justify the credibility of department by demonstrating a high level of professional competence in their respective fields.

In conclusion, I wish the best of luck to all our students and encourage them to aim high, work hard, and achieve their goals. Together, we will make





ELITE is a department student associati consisting of a President, Vice-Preside Treasurer, Secretary, and body members w work under the guidance of Chairman a Staff coordinators, ELITE provide stude with the knowledge and technical exposi by conducting various workshops a seminars. This student body guides eve student to face a variety of challenges real-life situations through focused training activities. All the faculty members in department are fellow members in differ technical associations student members also fellow members in different techniassociations like CSI, ISTE. Technical eth alone cannot make student cope with ray technological development. There is a ne to improve communication skill. So, ELI becomes a launching pad by organizi different personality development program



### Introduction to Department

Information Technology Department established in the year2000 with an intake of 60. The Intake was increased to 120 from the year 2011. The department headed by a Doctorate and other 20 faculty members with M.Tech qualification. Faculty members are highly experienced and a combination of Teaching and Industry expertise. Dept. of IT consisting 3 computer Labs having 226 systems with latest configuration to meet the requirement of the syllabus. Dept. of IT handles CPNM Course for all the First year students in the Institute. The dept. equipped with modern Teaching aids like E-Class room and seminar presentations using LCD projectors for the benefit of better understanding of the The curriculum is upgraded students. regularly to keep up with the growing demands and changing trends of the software industry and the research laboratories. Department of IT equips its students not only with the technical knowledge to enable them to meet the challenges of global standards but also integrates value education, environmental awareness and communication skills into its curriculum to mould the students are responsible citizens.



Dr. K. Satyanarayana, Associate Professor



Dr. G. Chamundeswari, Associate Professor



Dr. N. Sameera, Assistant Professor



Smt T. Satya Naga Mani, Assistant Professor



Sri N. Prasad, Assistant Professor



Smt G. Krishnaveni, Assistant Professor



Sri K. Purna Prakash, Assistant Professor



Smt J.Malathi, Assistant Professor



Sri D. Srinivasa Rao, Assistant Professor



Smt N.V.S.K.Vijaya Lakshmi K, Assistant Professor



Sri G. Vihari, Assistant Professor



Sri P. Ramaiah Chowdary
Assistant Professor



Smt B.Lalitha Bhavani, Assistant Professor



Sri G. Pavan, Assistant Professor



Sri E. Bala Krishna Manash, Assistant Professor



Sri V.Gopinath, Assistant Professor



Sri P. Rajendra Kumar, Assistant Professor



Sri Yallamanda Challa, Assistant Professor



Sri Y. Siva Koteswara Rao, Assistant Professor



Smt N. Durga Prasanna, Assistant Professor



Sri S. Uma Seshagiri Rao, Assistant Professor



Sri B. Ramesh Babu, Assistant Professor



### DEPARTMENT OF INFORMATION TECHNOLOGY

### DEPARTMENT VISION

To be a premier department in the region in the field of Information Technology through academic excellence and research that enable graduates to meet the challenges of industry and society.

### DEPARTMENT MISSION

MI: To provide dynamic teaching-learning environment to make the students industry ready and advancement in career.

M2: To inculcate professional and leadership quality for better employability and entrepreneurship.

M3: To make high quality professional with moral and ethical values suitable for industry and society.

### PROGRAM EDUCATIONAL OBJECTIVES

PEO1: Solve real world problems through effective professional skills in Information Technology industry and academic research.

PEO 2: Analyze and develop applications in Information Technology domain and adapt to changing technology trends with continuous learning.

PE03: Practice the profession in society with ethical and moral values.

### PROGRAM OUTCOMES

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, research literature, and analyze complex engineering problems reaching substantiated conclusions using the first principles of mathematics, natural sciences, and engineering sciences.

PO3: Design/Development of Solutions: Design solutions for complex engineering problems and system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, society, 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 modeling to complex engineering activities with an understanding of the limitations.

PO6: The Engineer and Society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7: Environment and Sustainability: Understand the impact of the professional engineering solutions in society 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 multi-disciplinary settings.

P010: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

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 multi-disciplinary 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.



Dr. S Krishna Rao, Head of the Department-IT

### **HOD ACHIVEMENTS:**

- Dr. S Krishna Rao, authored a book "Big Data with Hadoop applications" in the year 2019, Lambert Academic Publishing, Germany with ISBN number -978-620-0-31632-5
- Dr. S Krishna Rao, authored a book "A Beginner's guide to Latex" in the year 2020 , PND Publishers, with ISBN number -979-8566693668
- Dr. S Krishna Rao authored a book "Introduction of Python basics with Data Science" in the year 2021, PND Publishers ,with ISBN number -979-8712947560 Dr. S Krishna Rao, published book chapter, "Novel Theories Applications of Global Information Resource Management, IGI Global. Chapter 12, DOI-10.4018/p78-1-7998-1786-4.Ch012.)
- Dr. S Krishna Rao, Guided 2 Ph.D scholars in CSE from Dept. of CSSE, Andhra University
- Dr. S Krishna Rao, Guiding 6 Ph.D scholars in CSE from Dept. of CSSE, Andhra University.

- Ratified professor in Department of CSE from Andhra University.
- Ratified professor in Department of CSE from Andhra University.
- Published 28 International Journal papers including SCI/ Web of Science/ Scopun and UGC Journals.
- Authored 3 textbooks named "Big Data With Hadoop Applications", "INTRODUCTION OF PYTHON BASICS WITH DATA SCIENCE" and "A Beginners guide to LaTeX".
- Having a total teaching experience of 25 years.
- Conducted 4 workshops in the academic year 2022–23.
- Attended South Zone Vice Chancellor's meet with Honorable Governor Sri Biswabhusan Harichandan, conducted at AU Convention Centre- Vizag by Andhra University.

### STAFF PAPER PUBLICATIONS

Sno.	Name of the Faculty	TITLE OF THE PAPER	NAME OF THE JOURNAL	MONTH & YEAR OF PUBLICATION
1	V Gopinath	Privacy and Security Concerns in the Internet of Things: A Layered Approach	Springer SIST series	In Press
2	G.krishnaveni	A Novel Object detection in autonomous vehicles using CNN algorithm	UAEMA	December 2022
3	P.Rajendra Kumar	Optimization Assisted Hybrid Intelligent System for Heart Disease Prediction	Journal of Mechanics in Medicine and Biology	August 2022
		Survey on Heart Disease Prediction using Machine Learning Techniques	Springer	July 2022
4	B.Lalitha Bhavani	An Effective Task Scheduling Methodology For cloud Computing using Extension Cuckoo Search Algorithm And FMPSO	ПАЕМА	December 2022
5	Dr. G. Chamundeswari	Design of load frequency Controller using Whale Optimization Algorithm", International conference on smart grids structures and materials	IEEE Xplore	
6	G. PAVAN	Published a Book on "Fundamentals of Artificial Intelligence", South Asian Academic Publishers, India. ISBN: 978-93-92153-40-2		
7	EBala Krishna Manash	Intelligent skin cancer diagnosis using adaptive k-means segmentation and deep learning models	Concurrency Computat Pract Exper. 2023	2022 September
		Optimized Deep CNN with Deviation Relevance-based LBP for Skin Cancer Detection: Hybrid Metaheuristic Enabled Feature Selection	INTERNATION AL JOURNAL OF IMAGE AND GRAPHICS	2022
8	J.Malathi	AN EFFECTIVE TUMOR DETECTION FROM MRI IMAGES USING DEEP LEARNING-BASED DEPTHWISE SEPARABLE CNN	Science, Technology and Development	December 2022
9	T.Satya Nagamani	A COMPREHENSIVE STUDY OF EFFECTIVE RESOURCE ALLOCATION IN CLOUD COMPUTING	Science, Technology and Development	December 2022

### STAFF WORKSHOP/SEMINARS/FDP

No.	NAME OF THE FACULTY	WORKSHOPS/SEMINARS/FDP	DATE
		One week FDP on "Augmented & Virtual Reality with Data Science"	06-06-2022 to 11-06-2022
1	Dr. G. Chamundeswari	1-Week National Level Faculty Development Program on Amazon Web Services	22-8-2022 to 27-8-2022
		Out Come Based Education (OBE)	08-12-2022 to 15-12-2022
		One Day Faculty Awareness Program ON IPR	23-12-2022
		ONE WEEK FOR ON AMAZON WEB SERVICES	22 AUG 2022 TO 27 AUG 20
		Java FUIISTACK 2.0	10-12-22 to 10 1.23
2	G.Krishnaveni	Out Come Based Education (OBE)	16-2-23 to 22-2-23
		Consideration of the Constant	
		One Day Faculty Awareness Program ON IPR	23-12-2022
		Java FUII STock 2.0	10-12-22 to 10.1.23
3	J.Malathi	Azure Devops Fundamentals for Beginners	Dec1, 2022 Date of Complet
		One week FDP on amazon web services	22 AUG 2022 TO 27 AUG 20
	the same of the same of the same of	One Day Faculty Awareness Program ON IPR	23-12-2022
		OutCome Based Education (OBE)	8-12-2022 to 15-12-2022
4	B.lalitha Bhavani	Java FUII STock 2.0	10-12-22 to 10.1.23
740 -		One Day Faculty Awareness Program ON IPR	23-12-2022
	The same of the sa	ONE WEEK FDP ON AMAZON WEB SERVICES	22 AUG 2022 TO 27 AUG 20
		1-Week National Level Faculty Development Program on Amazon     Web Services	22-8-2022 to 27-8-2022
-		One Day Faculty Awareness Program ON IPR	23-12-2022
5	G.Pavan	30 Days Master Class on Java Programming	11-4-2022 to 10-5-2021
		Springer Nature Science and Technology Symposium	21-6-2022
-		Basics of Android App Development with Kotlin	11-6-2022 to 16-6-2022
566		Introduction to Research Ethics	3-Months
- 2	5011 WARRING TO THE REAL PROPERTY OF THE REAL PROPE	ONE WEEK FOR ON AMAZON WEB SERVICES	22 AUG 2022 TO 27 AUG 20
6		JAVA SCRIPT COURSE IN INFOSYS Springboard	8 MARCH 2023-12MARCI 2023(15 HOURS 34 MINIT CONTENT)
0	E BALA KRISHNA MANASH	HTML 5 - THE LANGUAGE COURSE IN INFOSYS Springboard	17 dec 2022 to 20 dec 2022(13HOUR 15MINUTE content)
		ONE DAY FACULTY AWARENESS PROGRAM ON IPR	23 Dec 2022
7	P. Rajendra Kumar	One Day Faculty Awareness Program ON IPR	23-12-2022
1.74	7 . Najeriara Kansar	OutCome Based Education (OBE)	08-12-2022 to 15-12-202
	The state of the s	Recent Trends in Computer Science	20th December to 24th December 2022
		Designing and modeling IOT, AI & ML systems	1-aug-2022 to 5-aug-202
8	V Gopinath	ONE WEEK FDP ON AMAZON WEB SERVICES	22 AUG 2022 TO 27 AUG 20
		Research conclave 22-Exchanging Futuristic ideas for innovative research	8th-9th july 2022
		Online Bootcamp - Basics of Android App Development with Kotlin	11-06-2022 to 15-06-202
		Module 3: Communication skills, Modes and Knowledge Dissemination - 8 WEEKS FDP	July 2022
9	Y.Siva Koteswara Rao	Module 5: Technology Enabled Learning and Life long learning - 8 WEEKS FDP	July 2022
		Module 6: Student Assessment and Evaluation - 8 WEEKS FDP	July 2022
		IP Awareness/Training program. One Week FDP	23-12-2022
		UHV-II- One week FDP	13-02-2023 to 18-02-2023
		Recent advances in Data Science, Data Analytics & Cyber Security	1-3-2023 to 5-3-2023
10	De V. Catalana		11-3-2023
10	Dr.K. Satyanarayana	IT Disaster recovery -breaking myths for Resilience	44 3 2023
10	Windows	Recent advances in Data Science, Data Analytics & Cyber Security	1-3-2023 to 5-3-2023
	Dr.K. Satyanarayana G. Vihari	Recent advances in Data Science, Data Analytics & Cyber Security	
	Windows		1-3-2023 to 5-3-2023

### MEMORANDUM OF UNDERSTANDING



### Brain O Vision Pvt. Ltd. Hyderabad



Brainovision Solutions India Private Limited, is a an organization which deals with the wing of software development and technical education.

### ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION, TADEPALLI 💽 ...

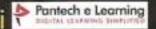
APSSDC is a not-for-profit organization (Section-8 company) formed as a Public-Private Partnership (PPP) corporation to promote Skill Development & Entrepreneurship in the state of Andhra Pradesh.



### KVENINAR SOFTWARE SOLUTIONS PVT. LTD. VIJAYAWADA Kehinar

Kveninar Software Solutions Pvt. Ltd. is a leading provider of information technology services to business and government worldwide. Kveninar has the experience, business operations, Business Strategy, Internet Applications, Mobile applications and Enterprise Resource Planning. This capability has enabled Kveninar to become a valued business partner with a host of leading domestic companies.

### PANTECH LEARNING. Chennai Pantech e Learning



Pantech E Learning Chennai strives to be a leader in the area of Technical Training's, Products and Research Initiatives based in Chennai



### EFICENS SYSTEMS, Atlanta, USA @



Eficens Systems, environment dedicated to software innovation, partners with businesses across every major industry to make amazing products and connect the dots between people to people.

### PLACEMENTS - A.Y.2022-23

CENTER OF EXCELLENCE



TATA
ONSULTANCY
SERVICES





**APT**Online



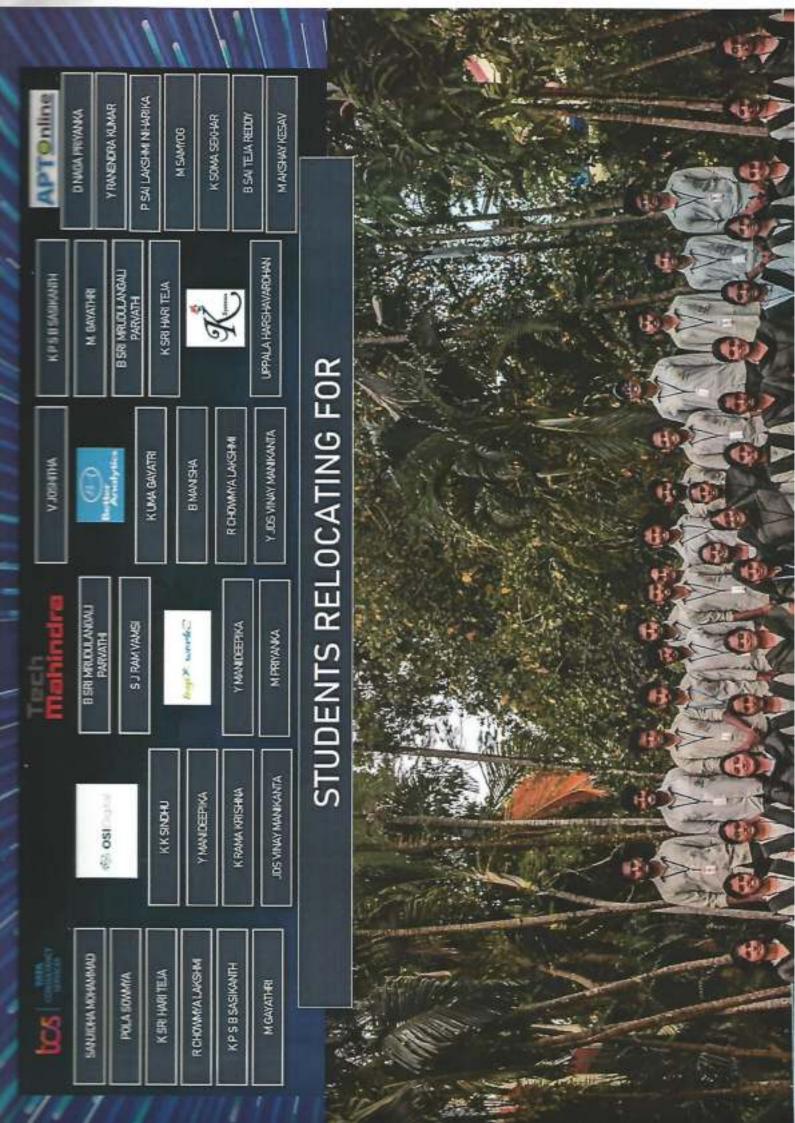


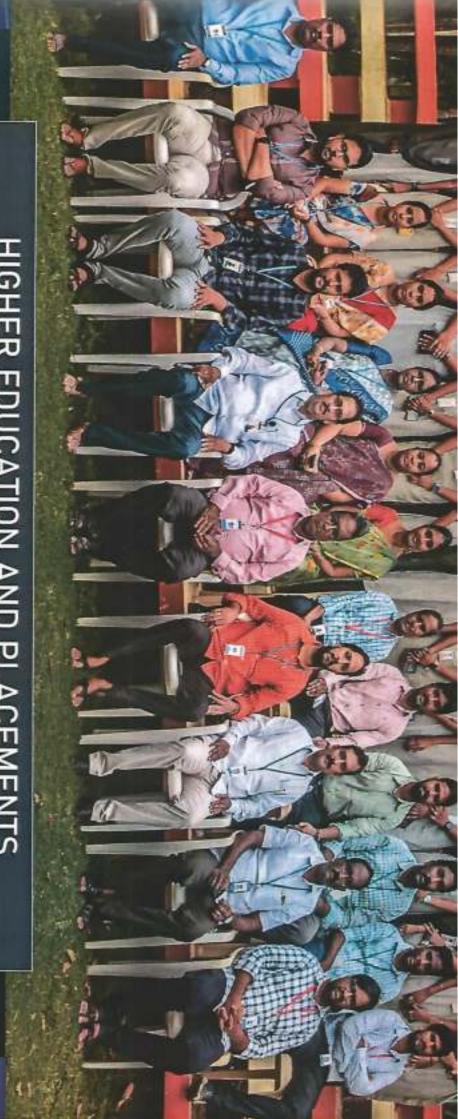




It's a joy to see our students succeed and achieve their dreams, especially during these difficult times. Our team will continue to work hard to ensure that our students have the best opportunities to kick-start their careers.

-Faculty
IT Department.





# HIGHER EDUCATION AND PLACEMENTS

CH CHARU SAHASRA

### 

KSRI HARITEIA

**Rodines** 

JASTI MAHIMA

CHICHARU SAHASRA

A BHANU

CHARLLATHAG

DARSI ANIL KUMAR

CHSUSMITHA

BOPPA SRUTH SA

PATIBANDLA LAKSHM PRIYA

SUITH BABU NARRA

SUJITH BABU NARRA

CHATAGOTTA CHATAGOTTA

PAVAN SIVA REDOY KRUSTIPATI

PAVAN KUMAR KADALI

PHAN SREE BADDIREDOY

CH CHARU SAHASRA

CHTNEEDI HEMANTH SAI RAM

SATHSH KUMAR MADINEN

REVANTH CHILLINUR!

GRE

PUNDARIKAKSHA PASUPULATI

MANISHA BODOU

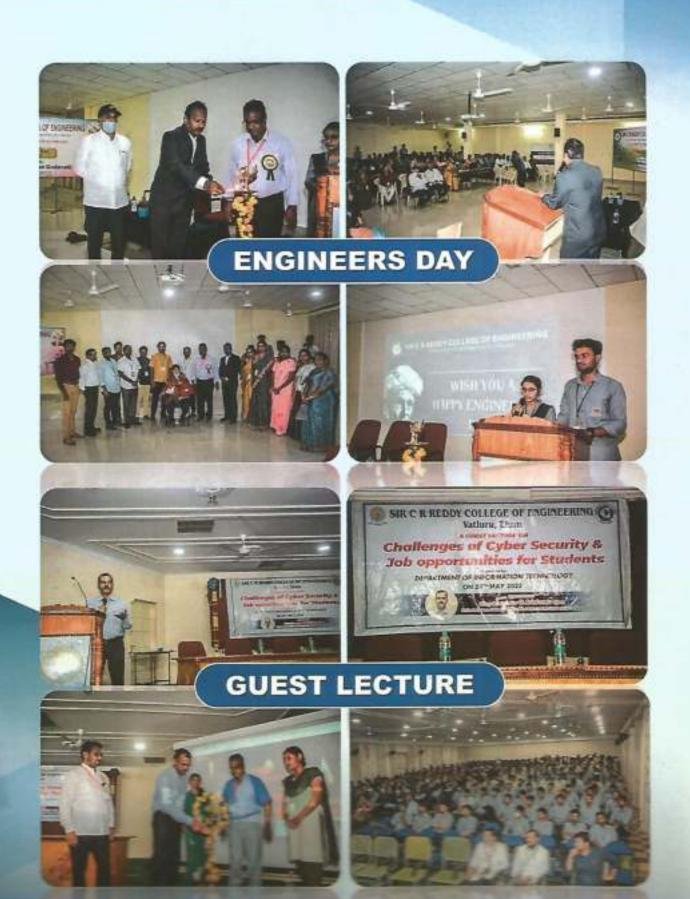
BHAYYATEJA MANNAM

BATTUSAI TEJA REDOY

PAVAN SIVA REDDY

CHITNEED HEMANTH SALRAM

### DEPARTMENT EVENTS / WORKSHOPS



### DEPARTMENT EVENTS / WORKSHOPS





A 3-day workshop on Advanced Python





A 3-day workshop on Devops with AWS

### STAFF ACHIEVEMENTS



### Sri S. Uma Sesha giri sir

took part in 48th A.P COLLEGE TEACHERS SHUTTLE TOURNAMENT held at RVR&JC Guntur on 25 th & 26 th. 120 teams participated, He stood third in senior category along with team member from CRR DEGREE college.

### STUDENT ACHIEVEMENTS



### K. HEMA LIKHITHA

### 17B81A1249

Laurel of the department and blinking star of the Sir C F Reddy College affiliated to JNTUK, proudly announcing that K. Hema Likhitha 17B81A1249 Of 4/4 IT 2017-21 Batch topper in affiliated colleges of JNTUK kakinada is about to honored with gold medal in IX convocation at JNTUK



### K. VINOD

### 20B81A1247 III/IV

Winners at state level in Sakshi Premier League(Cricket competition).



### M. VENKATA SIVA BRAHMA

### 20B81A1268 III/IV

Gold medal in 66 category Weight Lifting in JNTUK COLLEGIATE CHAMPIONSHIP.





### S. HEMANTH SIVA KIRAN

### 20B81A12A6 III/IV

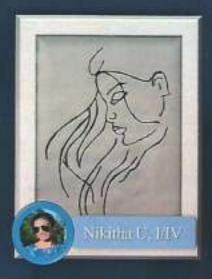
Badminton Winner in VALIANT 2k22 organized by Vishnu Institute of Technology

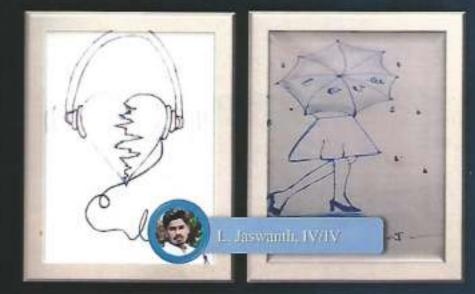
### ACADEMIC TOPPERS

	SECTION	NAME	SGPA	RANK
TH	A M	l. Sathish kumar	7.86	1
	A B	. Mrudula	7.86	1
	A K	K. Sindhu	7.68	2
	ВР	. Lakshmi Priya	8.36	1
YEAR		P.B.S.Naga Vineela	8.05	2
	SECTION	NAME	SGPA	RANK
RD	А	K.S. H.Santhoshi	8.68	1
<b>4</b>	А	G.V Nancharaiah	8.55	2
_5	А	J. Deepthi	8.55	2
	В	P. Anuhya	8.41	1
YEAR	В	D. Mounika	8.27	2
	SECTION	NAME	SGPA	RANK
ND		NAME OF THE OWNER OW	9.39	1
	A	M.H.Bala Priyanka	7.07	
49)	A	A. Hafiza Begam	9.23	2
		P.S.M.G.Sai	+	LUCE,
	В	Viswanath	9.23	1
YEAR	В	V. Sowjanya	9.08	2

### ARTICLES





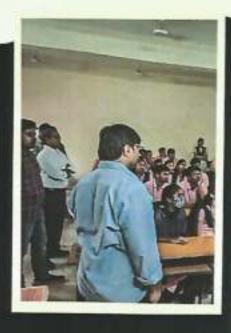








### **TECHNICAL EVENTS**

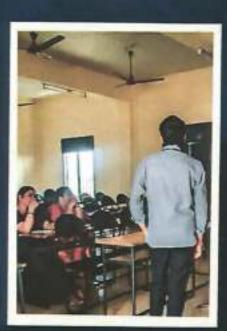














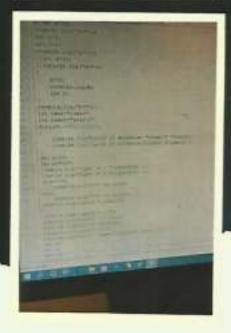




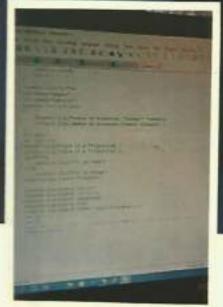


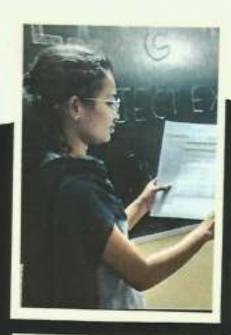






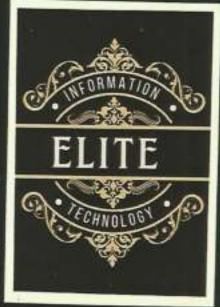














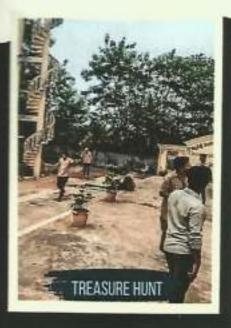








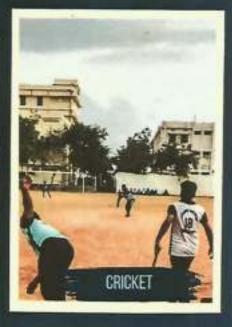
### **NON-TECHNICAL EVENTS**















## GROUP PHOTO



### Chairman Dr.S.Krishna Rao HOD,IT

### Staff Co-Ordinators

Sri. G VIHARI, Sri. V.GOPINATH

### President

JD SVManikanta(4/4-A)

### Vice-President

M.Sandeep(4/4-B), K.K.Sindhu(4/4-A) M.Gayathri(4/4-A), K.Nithin(3/4-A)

### Secretary

Y.Purna Naga Sai (4/4-B)

### Joint Secretary

Ch.Kusuma Harinath(4/4-A), R Chowmya Lakshmi(4/4-B) P. Lakshmi Priya(4/4-B), G.Bhagya Lakshmi(3/4-A)

### Treasurer

K Pavan(4/4-A), V.Joshitha (4/4-B) S.Hemanth(3/4-B), V.S V Manikanta(2/4-B)

### Editorial Board

K Moin Nagoor vali(4/4-A),Y.Ranendra Kumar (4/4-B) Ch.Revanth (4/4-A), L.Jaswanth (4/4-A) Y.B.S.Vardhan (3/4-B), P.George (3/4-B) K.Anand Jagadeesh(3/4-A) M.Jeevan(3/4-B), Srikari Srija G (2/4-B), N.Harsha Vardhan(2/4-B) P.S M G S Viswanath(2/4-B)

### Student Body

M.Satish Kumar (4/4-A)
M.Priyanka (4/4-A)
K.S.S Shiva Madhav (4/4-B)
M.Samyog (4/4-B)
P.Sruthi(3/4-A)
A Louhika(3/4-A)
V.Teja(3/4-B)
Ch.Rupa (2/4-A)

Sd.Haneef (2/4-B)