



# Info Techies Bulletin

Biannual Newsletter for Department of Information Technology

PRAGATI ENGINEERING COLLEGE

Volume -25- Dec 2024

## Vision of the Institute

To emerge as a Premier Institution for Technical Education in the Country through Academic Excellence and to be recognized as a Centre for Excellence in Research & Development, catering to the needs of our Country.

## Mission of the Institute

To realize a strong Institution by consistently maintaining State-of-art infrastructure and building a cohesive, World Class Team and provide need based Technical Education, Research and Development through enhanced Industry Interaction.

## Department Vision

To attain academic excellence in the field of Information Technology and research serving to the needs of the society through technological developments.

## Department Mission

- 1: To create stimulating learning ambiance by providing state-of-art infrastructure and to induce innovative and problem-solving capabilities to address societal challenges.
- 2: To impart quality technical education with professional team to make the graduates globally competent to IT Enabled Services.
- M3: To strengthen industry-academia relationship for enhancing research capabilities.

## PSOs for B.Tech. IT Program

- 1: Develop software programs in various programming languages learnt to create the software applications to solve the real life problems of the society.
- PSO2: Excel in emerging software tools and technologies.
- 3: Effectively transform their ideas and bring consensus for the transformation of the idea into a usable software product application.

## PEOs for B.Tech. IT Program

- 1: Students will have successful career in IT as researchers, entrepreneurs and IT professionals satisfying the needs of the society.
- PEO 2: Students will exhibit inclination towards higher education and continuous learning process.

**PEO 3: Students will practice ethical behavior in IT industry with effective soft skills essential to work in teams.**

### **Program Outcomes (POs)**

**Engineering Graduates will be able to:**

- 1. Engineering knowledge:** Apply the knowledge of mathematics, science, Engineering fundamentals, and an Engineering specialization to the solution of complex Engineering problems.
- 2. Problem analysis:** Identify, formulate, review research literature, and analyze complex Engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and Engineering sciences.
- 3. 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.
- 4. 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.
- 5. 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.
- 6. 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.
- 7. 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.
- 8. Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the Engineering practice.
- 9. Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- 10. 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.
- 11. 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.
- 12. 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.



# PRAGATI ENGINEERING COLLEGE

(AUTONOMOUS)

## DEPARTMENT OF INFORMATION TECHNOLOGY

### List of Faculty Members

S.No.	Name of the Faculty	Qualification	Designation
1	Dr.M.Uma Devi	Ph.D	Associate. Professor
2	Mrs. T.Ganga Bhavani	M.Tech.	Asst. Professor
3	Mr. G.Satya Mohan Chowdary	M.Tech.	Asst. Professor
4	Mr. D.Konda Babu	M.Tech.	Asst. Professor
5	Mrs. Ch.Naga Lakshmi Geetha	M.Tech.	Asst. Professor
6	Mrs. D.Bhavya Reddy	M.Tech.	Asst. Professor
7	Mrs. P S H R Padmaja	M.Tech.	Asst. Professor
8	Mrs. T.Kavitha	M.Tech.	Asst. Professor
9	Mrs. A.Manga Devi	M.Tech.	Asst. Professor
10	Miss J N S Kalyani	M.S	Asst Professor
11	Mr. S Srinivas (Visiting Faculty from Industry)	M.S.	Asst. Professor

#### 1. Papers Published by the faculty members: 23

S.No.	Name of the faculty	Title	Journal name	Month and Year of Publication / Presentation	Indexing
1	Dr. M. Uma Devi	A Deep Learning-based System for Automated Plant Disease Severity Detection and Fertilizer Optimization	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	Apr 2024	UGC Approved



# PRAGATI ENGINEERING COLLEGE

(AUTONOMOUS)

## DEPARTMENT OF INFORMATION TECHNOLOGY

2	Dr. M. Uma Devi	Utilizing Machine Learning To Enhance Early Intervention In Mental Health Care	Industrial Engineering Journal	Apr 2024	UGC Approved
3	T. Ganga Bhavani	Deep Neural Networks for Multimedia Forensics: Detection of Deepfake Content	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	Apr 2024	UGC Approved
4	T. Ganga Bhavani	Machine Learning-based Anomaly Detection for Fraudulent Banking	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	Apr 2024	UGC Approved



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## DEPARTMENT OF INFORMATION TECHNOLOGY

		Activities			
5	T. Ganga Bhavani	Improving Cardiovascular Stroke Risk Prediction with Machine Learning	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	Apr 2024	UGC Approved
6	Mr. Satya Mohan Chowdary G	Enhancing Digital Cheque Security: A Machine Learning Approach to Signature Fraud Mitigation	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	Apr 2024	UGC Approved
7	Mr. Satya Mohan Chowdary G	Identifying Credit Card Fraudulent Transactions through Machine Learning Analysis	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	Apr 2024	UGC Approved
8	D. Konda Babu	Web-based Deep Learning System for Malaria Parasite Detection in Granular Blood Samples	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	Apr 2024	UGC Approved
9	D. Konda Babu	A Proactive Approach to Heart Health: Machine Learning for Risk Assessment and Personalized Patient Management	Industrial Engineering Journal	Apr 2024	UGC Approved
10	Mrs. A Manga Devi	Intelligent Traffic Management System: Detecting Over Speeding, Red-Light Violations, Helmet Violations, and Triple Riding	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	Apr 2024	UGC Approved
11	Mrs. A Manga Devi	Identifying Risky Apps on the Google Play Store: A Decision Tree Approach	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	Apr 2024	UGC Approved
12	D. Bhavya Reddy	Implementing a Blockchain-based E-	International Journal for Research in Applied Science	Apr 2024	UGC Approved



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## DEPARTMENT OF INFORMATION TECHNOLOGY

		Voting System for India: Mitigating Security Challenges through Aadhaar Card Authentication	& Engineering Technology (IJRASET)		
13	P S H R Padmaja	Enhanced Fire Alarm Systems using Deep Learning for Smoke and Fire Detection	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	Apr 2024	UGC Approved
14	P S H R Padmaja	Enhancing Coronary Heart Disease Risk Prediction with Machine Learning and Deep Learning	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	Apr 2024	UGC Approved
15	T. Kavitha	Enhancing Spam Filtering: A Machine Learning Approach to SMS and Email Fraud Classification	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	Apr 2024	UGC Approved
16	T. Kavitha	Web-based System for Identifying Fraudulent Job Advertisements with Machine Learning	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	Apr 2024	UGC Approved
17	Ch. Naga Lakshmi Geetha	A Recognition-Based Graphical Password System for Enhanced User Authentication	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	Apr 2024	UGC Approved
18	Mrs. T Ganga Bhavani	Exploring Word Embeddings for Text Classification: A Comparative Analysis	International Journal of Engineering Technology and Management Sciences- IJETMS	Sept-Oct 2023	UGC Approved
19	Mr. Satya Mohan Chowdary G	Exploring Word Embeddings for Text Classification: A Comparative Analysis	International Journal of Engineering Technology and Management Sciences- IJETMS	Sept-Oct 2023	UGC Approved
20	Mrs. A Manga Devi	Applicatins of Fuzzy sets for personalized	Journal of of Fuzzy sets Fuzzylogic Design volume 1	March 2024	MAT



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## DEPARTMENT OF INFORMATION TECHNOLOGY

		healthcare Recommendation system	issue 1 year 2024		
21	Mrs. A Manga Devi	Application of Disributed graphs for Facilitaion of scalable boten Detection and Response	Journal of security computer Networks and Distributed Systems	Feb , 20024	MAT
22	Mrs. A Manga Devi	Self-Assured Oppurtunitic Routing Algorithm for Ad Hoc Networks	Journal of IoT-Based Distributed Sensor Networks volume 1, Issue 1 year 2024	Feb , 2024	MAT
23	Mrs. A Manga Devi	Review of variants of bloom filters for Detection of malicious URL	Journal of Intelligent Decision Technologies and Applications volume 1, Issue 1 year 2023	Dec , 2023	MAT

### 2. Patents Published: 01

1. Title of Invention, “**Multi Objective Differential Evolution Mechanism for Cyber Security Policy Optimization**”, Date of Filing: 27-12-2023, Application No.202341089155 A. Publication Date:12-01-24.

Publishing Agency: Indian Patent Office

### 3. Book published: 01

1. Dr. Moka Uma Devi, (2024). Problem Solving and Python Programming (First ed.). Scientific International Publishing House, ISBN N0:978-93-6132-663-9

### 4. Articles Reviewed: 02

1. **Mr. Satya Mohan Chowdary G**, asReviewer for the International Conference on “**Algorithms & Computational Theory for Engineering Applications (ICACTEA-2024)**”,held in association with **Springer** and organized by Department of Computer Science & Engineering, Aditya Engineering College(A) on 2<sup>nd</sup> & 3<sup>rd</sup> February, 2024.
2. **Mrs. T Ganga Bhavani**, asReviewer for the International Conference on “**Algorithms & Computational Theory for Engineering Applications (ICACTEA-2024)**”,held in association with **Springer** and organized by Department of Computer Science & Engineering, Aditya Engineering College(A) on 2<sup>nd</sup> & 3<sup>rd</sup> February, 2024.



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## DEPARTMENT OF INFORMATION TECHNOLOGY

### 5. FDPs: 05

S. No.	Name of the Faculty	Designation	Workshop/FDP Name	Organized by	Duration
1	Dr. M. Uma Devi	Associate Professor & HoD	Deep Learning and its applications	Electronics and ICT Academy, NIT Warangal	21-03-2024 to 30-03-2024
2	Dr. M. Uma Devi	Associate Professor & HoD	Data Science and its applications	Acharya Nagarjuna University	02-02-2024 to 03-02-2024
3	Mrs. T Ganga Bhavani	Asst. Professor	Data Visualisation using POWER BI	The Bhopal School of social sciences	1 <sup>st</sup> -2 <sup>nd</sup> Feb,2024
4	Mr. G Satya Mohan Chowdary	Asst. Professor	Data Mining	NPTEL-AICTE FDP	Jan-March 2024
5	Mr. G Satya Mohan Chowdary	Asst. Professor	Data Visualisation using POWER BI	The Bhopal School of social sciences	1 <sup>st</sup> -2 <sup>nd</sup> Feb,2024





# PRAGATI ENGINEERING COLLEGE

(AUTONOMOUS)

## DEPARTMENT OF INFORMATION TECHNOLOGY

### 6. Training Program attended: 02

S. No.	Name of the Faculty	Designation	Training Program Name	Organized by	Duration
1	Mrs. T Ganga Bhavani	Asst. Professor	National Intellectual Property awareness mission	NIPAM, Intellectual property India	13 <sup>th</sup> Sept, 2023
2	Mr. G Satya Mohan Chowdary	Asst. Professor	National Intellectual Property awareness mission	NIPAM, Intellectual property India	13 <sup>th</sup> Sept, 2023

### 7. Webinars Attended: 01

S. No.	Name of the Faculty	Designation	Webinar Name	Presented & Organized by	Duration
1	Mr. D Konda Babu	Asst. Professor	Cloud Enabled Internet of Things	DR. Ka. Selvaradjou, Professor, Puducherry Technological University	30th March 2024



# PRAGATI ENGINEERING COLLEGE

(AUTONOMOUS)

## DEPARTMENT OF INFORMATION TECHNOLOGY

### 1) NPTEL (7) certification

S.No.	Roll No.	Name of the Student	Name of the Course	Date
1	21A31A1262	TAMALAMPUDI SRIGOWTHAMREDDY	Nptel	4/12/2024

### 2) INTERNSHIP (32) Certification

S.No.	Name of the Student	Roll No.	Name of the Course	Date
1	T.charan	22A31A1262	INTERNSHIP	3/23/2024
2	NARKIDIMILLI VASAVI	22A31A1219	INTERNSHIP	1/15/2024
3	Y.B.V.N.S amrutha	22A31A1234	INTERNSHIP	3/31/2024
4	RYALI KARTHIK	22A31A1257	INTERNSHIP	4/5/2024
5	DAKSHAYANI SALAPU	22A31A1222	INTERNSHIP	3/9/2024
6	Y.B.V.N.S amrutha	22A31A1234	INTERNSHIP	3/20/2024
7	Bandaru Satya Lakshmi Sanjana	22A31A1202	INTERNSHIP	3/25/2024
8	G S V L B SATHWIKA	22A31A1210	INTERNSHIP	3/20/2024
9	G.v.v.sai yogesh	22A31A1244	INTERNSHIP	3/5/2024
10	Gadamsetti Manikanta	22A31A1242	INTERNSHIP	3/19/2024
11	KUNDETI MOHAN VENKATA NAGA SAI MANIKANTA	22A31A1250	INTERNSHIP	3/13/2024
12	ODURI K N SURYA PRAKASH	22A31A1254	INTERNSHIP	4/25/2024
13	Vallabhaneni V V N Sri Vaishnavi	22A31A1229	INTERNSHIP	3/10/2024
14	Samireddi Adilakshmi	22A31A1223	INTERNSHIP	3/10/2024
15	GEDDA LALITH ARAJA SRI	22A31A1208	INTERNSHIP	4/17/2024
16	Atiili pranathi	22A31A1201	INTERNSHIP	4/17/2024
17	Padmaja valluri	22A31A1230	INTERNSHIP	3/9/2024
18	GANAPATHIRAJU RAMA SRI DEVI	22A31A1206	INTERNSHIP	4/9/2024
19	Vagu Sameera	22A31A1228	INTERNSHIP	4/26/2024
20	KUPPALA SATYA SRI	22A31A1216	INTERNSHIP	4/10/2024
21	REDDI SRIRAM	22A31A1256	INTERNSHIP	3/4/2024
22	P Kanya Gowri	22A31A1221	INTERNSHIP	1/11/2024
23	T.charan	22A31A1262	INTERNSHIP	3/10/2024
24	NARKIDIMILLI VASAVI	22A31A1219	INTERNSHIP	4/25/2024
25	Y.B.V.N.S amrutha	22A31A1234	INTERNSHIP	3/9/2024
26	RYALI KARTHIK	22A31A1257	INTERNSHIP	3/13/2024
27	DAKSHAYANI SALAPU	22A31A1222	INTERNSHIP	3/18/2024
28	Y.B.V.N.S amrutha	22A31A1234	INTERNSHIP	3/9/2024
29	Bandaru Satya Lakshmi Sanjana	22A31A1202	INTERNSHIP	3/9/2024
30	G S V L B SATHWIKA	22A31A1210	INTERNSHIP	3/9/2024
31	G.v.v.sai yogesh	22A31A1244	INTERNSHIP	3/9/2024
32	Gadamsetti Manikanta	22A31A1242	INTERNSHIP	3/9/2024



# PRAGATI ENGINEERING COLLEGE

(AUTONOMOUS)

## DEPARTMENT OF INFORMATION TECHNOLOGY

### 3) HACKATHONS:- (2) Certification

S.No.	Name of the Student	Roll No.	Name of the Event	Date
1	BODDU SRI VISHNU	22A31A1237	HACKATHON	2/3/2024
2	MALLIPAMU RAMASURESH	23A35A1203	HACKATHON	3/2/2024

### 4) WORKSHOP (4) Certification

S.No.	Name of the Student	Roll No.	Name of the Competition	Date
1	SIYADRI YASHWITH A	22A31A1224	WORKSHOPS	3/1/2024
2	Vagu Sameera	22A31A1228	WORKSHOPS	3/6/2024
3	GANAPATHIRAJU RAMA SRI DEVI	22A31A1206	WORKSHOPS	3/6/2024
4	KUPPALA SATYA SRI	22A31A1216	WORKSHOPS	3/6/2024

### Personal Achievement: Certification

S.No.	Name of the Student	Roll No.	Name of the Competition	Date
1	Sai Mohith Kadiyala	21A31A1241	PERSONAL ACHEVEMENTS	2/27/2024

### The following are the academic toppers for III Year I Semester

1	IT	III-II	21A31A1230	YARLAGADDA MAHALAKSHMI	9.02	1
2	IT	III-II	21A31A1224	RANGANADHAM JALA NAGA HEMALATHA	8.74	2



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DEPARTMENT OF INFORMATION TECHNOLOGY

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## Editorial Board

### Faculty Members

Mr. D.Kondababu – Convener  
Mrs. T Ganga Bhavani – Member  
Mr.G.Satya Mohan Chowdary – Member

### Student Members

Ms. Nunna Vidya Vydehi (IV B.Tech.)  
Mr. B Vishnu (III B.Tech.)