



# Info Techies Bulletin

Biannual Newsletter for Department of Information Technology

PRAGATI ENGINEERING COLLEGE

Volume -22- Dec 2022

## 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

**M1:** To create stimulating learning ambiance by providing state-of-art infrastructure and to induce innovative and problem-solving capabilities to address societal challenges.

**M2:** 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

**PSO1:** 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.

**PSO3:** 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

**PEO 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.

## List of Faculty Members

S.No.	Name of the Faculty	Qualification	Designation
1	Dr. D.Sirisha	Ph.D	Professor & HOD
2	Mrs. PV Komali	M.Tech.	Asst. Professor
3	Mrs. NVS Sowjanya	M.Tech.	Asst. Professor
4	Mrs. T.Ganga Bhavani	M.Tech.	Asst. Professor
5	Mr. G.Satya Mohan Chowdary	M.Tech.	Asst. Professor
6	Mr. D.Konda Babu	M.Tech.	Asst. Professor
7	Mrs. Ch. Naga Lakshmi Geetha	M.Tech.	Asst. Professor
8	Mrs. D Bhavya Reddy	M.Tech.	Asst. Professor
9	Mrs. PSHR Padmaja	M.Tech.	Asst. Professor
10	Mrs. T.Kavitha	M.Tech.	Asst. Professor
11	Mrs. A.Manga Devi	M.Tech.	Asst. Professor

## FACULTY ACHIEVEMENTS

S.No.	Events	I T		
		Internal	External	Total Attended
1	Articels Reviewed	--	11	11
2	Papers Published	--	5	5
3	Faculty Development Programme's	--	12	12
4	Patents Published		2	2
<b>Total</b>		--	<b>30</b>	<b>30</b>

### 1.Articals Reviewed:

- “Heap Based Optimizer Algorithm for Solving Feature Selection Problems in High-Dimensional Cancer Microarray Data”, Journal of Super Computing, Springer, 12th Oct. 2022. SCI
- "Anchor-free Proposal Generation Network for Efficient Object Detection", Journal of Electrical and Computer Engineering, Hindawi Publications, 23rd Dec. 2023.
- “On the iteration scheme JK for generalized nonexpansive mappings in CAT(0) spaces”, Journal of Electrical and Computer Engineering, Hindawi Publications, 21st Sept. 2022.
- “Mine Intelligent Visualization Ventilation Safety Data Mining Algorithm Based on BP Neural Network”, Journal of Electrical and Computer Engineering, Hindawi Publications, 16th Sept. 2022.
- “Saliency detection via fusing color contrast and hash fingerprint”, Journal of Electrical and

Computer Engineering, Hindawi Publications, 24th August 2022.

- “CCCAP-Pre: Predicting Price of Artwork Based on GM(1, N, x(1)) Model and cultural services”, Mathematical Problems in Engineering, Hindawi Publications, 8th August 2022.
- "Numerical approximation of a one-dimensional transport model using a hybrid approach in finite volume method", Mathematical Problems in Engineering, Hindawi Publications, 6th August 2022.
- "Survey on Task Scheduling Optimization Algorithms for Edge Computing" Journal of Electrical and Computer Engineering, Hindawi Publications, 1st August 2022.
- “Minimal Reproducible Example (MRE) to generate evidence for Caching, Cache Line Size, and Data Prefetching by Intel Processors”, Journal of Electrical and Computer Engineering, Hindawi Publications, 18th July 2022.
- Deep Learning Based Software Reliability Prediction Model for Component Based Software, Journal of Electrical and Computer Engineering, Hindawi Publications, 2nd July 2022.

### 1. Papers Published (4):

S.No.	Name of the faculty	Title	Journal Name	Month and Year of Publication / Presentation	Indexing
1	Dr. D Sirisha	“MPEFT: A Makespan Minimizing Heuristic Scheduling Algorithm for Workflows in Heterogeneous Computing Systems”	CCF Transactions on High Performance Computing. Aug. 2022. DOI: 10.1007/s42514-022-00116-v	Aug, 2022.	SCIE
2	Mrs. T Ganga Bhavani	Machine Learning Techniques for selecting the Best Routing Traffic for Packets in LAN	International Journal for Modern Trends in Science and Technology, 8(S08): 154-163	2022	UGC Approved
3	Mrs. T Ganga Bhavani	Compiler Optimization using Machine Learning Techniques	International Journal for Modern Trends in Science and Technology, 8(S08): 145-153	2022	UGC Approved
4	Mr. G Satya Mohan Chowdary	Compiler Optimization using Machine Learning Techniques	International Journal for Modern Trends in Science and Technology, 8(S08): 145-153	2022	UGC Approved
5	Mr. G Satya Mohan Chowdary	Machine Learning Techniques for selecting the Best Routing Traffic for Packets in LAN	International Journal for Modern Trends in Science and Technology, 8(S08): 154-163	2022	UGC Approved



### 3. Faculty Development Programme's:

S. No.	Name of the Faculty	Designation	Workshop/FDP Name	Organized by	Duration
1	Dr. D Sirisha	Professor & HoD	AICTE FDP on "Research Avenues in Machine Learnig & AI for Societal Issues"	Department of CSE & ECE NIT Sinchar, Assam	14-03-2022 to 18-03-2022
2	Mrs. N V S Sowjanya	Asst. Professor	"Introduction to Python", "Programming Fundamentals using Python – Part 1" & "Programming Fundamentals using Python – Part 2" and "Python Programmer Certification"	Infosys Springboard	13th June to 17th June 2022
3	Mrs. N V S Sowjanya	Asst. Professor	Contemporary Computing Technologies	SRM Institute of Science and Technology	21st to 28th June 2022.
4	Mrs. T Ganga Bhavani	Asst. Professor	Unleashing Emerging Research Trends and Advancements in Computer Science	VIT, AP	4th to 14th July 2022.
5	Mrs. T Ganga Bhavani	Asst. Professor	Contemporary Computing Technologies	SRM Institute of Science and Technology	21st to 28th June 2022.
6	Mrs. T Ganga Bhavani	Asst. Professor	"21st CENTURY SKILLS FOR TEACHING & LEARNING (CSTL-2022)	GMR Institute of Technology	August 16-20,2022
7	Mrs. T Ganga Bhavani	Asst. Professor	Amazon Web Services	Department of CSE, GMR Institute of Technology, RAJAM in collaboration with BRAINOVISION SOLUTIONS INDIA PVT.LTD, CSI & ALL INDIA COUNCIL FOR TECHNICAL EDUCATION - AICTE	22nd August 2022 to 27th August 2022
8	Mr. G Satya Mohan Chowdary	Asst. Professor	Unleashing Emerging Research Trends and Advancements in Computer Science	VIT, AP	4th to 14th July 2022.
9	Mr. G Satya Mohan Chowdary	Asst. Professor	Contemporary Computing Technologies	SRM Institute of Science and Technology	21st to 28th June 2022.
10	Mr. G Satya Mohan Chowdary	Asst. Professor	"21st CENTURY SKILLS FOR TEACHING & LEARNING (CSTL-2022)	GMR Institute of Technology	August 16-20,2022
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12	Mr. G Satya Mohan Chowdary	Asst. Professor	IA Training Advanced level	MOEs Innovation Cell, AICTE	JULY 2022

#### **4. Patents Published:**

1. Title of Invention, “**Machine Learning based Plant Disease Identification and Treatment Suggestion System**”, Patent filed through NRDC, Date of Filing: 3-10-2020, Application No. 202041056517. Publication Date: 01-07-2022.

2. Title of Invention, “**Intelligent System Designing for Optimizing Fuel and Utilization through Minimizing Indirect Losses on Enhancing Efficiency of Power Plant**”, Patent filed through NRDC, Date of Filing: 12-9-2020, ApplicationNo.202041056516.PublicationDate:01-07-2022

**The following is the list of students who have participated in various online courses during the JULY-DEC 2022.**

S.No.	Roll No.	Name of the Student	Course Provider	Course Title
1	20A31A1255	S D S K P Subrahmanyam	NPTEL	Programming In Java
2	20A31A1214	Mogalapu Sri Reshma Lakshmi	NPTEL	The Joy of Computing Using Python
3	20A31A1211	K.Akhilandeswari	NPTEL	The Joy of Computing Using Python
4	20A31A1209	Kankatala Suchitra Devi	NPTEL	The Joy of Computing Using Python
5	20A31A1214	Mogalapu Sri Reshma Lakshmi	NPTEL	Problem Solving Through Programming In C
6	20A31A1203	Geethika Poornima Bulipe	NPTEL	Online Certification
7	20A31A1232	Chaitanya Beeraka	UDEMY	Data Science : Python For Data Analysis
8	20A31A1214	Mogalapu Sri Reshma Lakshmi	UDEMY	Front End Web Development
9	21A31A1208	Namitha Gampala	Infosys Spring Board	Programming Fundamentals Using Python Part
10	21A31A1217	Bharathi Mediseti	Infosys Spring Board	Programming Fundamentals Using Python Part
11	21A31A1227	Sai Ramya Harshitha Bhemala	Infosys Spring Board	Programming Fundamentals Using Python Part
12	21A31A1208	Namitha Gampala	Infosys Spring Board	Programming Fundamentals Using Python Part
13	21A31A1227	Sai Ramya Harshitha Bhemala	Infosys Spring Board	Programming Fundamentals Using Python Part
14	21A31A1217	Bharathi Mediseti	Infosys Spring Board	Programming Fundamentals Using Python Part
15	21A31A1201	Akumarthi Aksha Sharmila	PEC – Cyber Security Club	Introduction to Cyber Security Essentials
16	21A31A1204	Dhana Satya Sriya Nandikolla	PEC – Cyber Security Club	Introduction to Cyber Security Essentials
17	21A31A1221	Setti Devi	PEC – Cyber Security Club	Introduction to Cyber Security Essentials
18	21A31A1222	P.Honey Susila	PEC – Cyber Security Club	Introduction to Cyber Security Essentials
19	21A31A1222	P.Honey Susila	PEC – Cyber Security Club	Introduction to Cyber Security Essentials
20	19A31A1202	Alugolu Anusha	APSSDC	Java Full Stack
21	21A31A1260	Shambu Prasad Jakka	UDEMY	Java Programming Course Completion
22	20A31A1246	Md Jafar Sadiqe	Coursera	Programming Foundation with Javascript, Html and CSS
23	21A31A1239	Gandepalli Siva Harshith Kumar	Infosys Spring Board	Programming Fundamentals Using Python - Part 1

**The following are the list of students who have been awarded as the academic toppers on 15<sup>th</sup> August 2022.**

□ **The following are the academic toppers for II Year II Semester and overall pass percentage is 57.14%**

S.No.	Roll No	Name	Branch	Year - Sem	SGPA
1	20A31A1211	Kotikalapudi Akhilandeswari	IT	II-II	8.74
2	20A31A1254	Sunkara Chaitanya Sai Bhaskar	IT	II-II	8.74
3	20A31A1207	Juttuka Harshita Maha Lakshmi	IT	II-II	8.6
4	20A31A1209	Kankatala SuchitraDevi	IT	II-II	8.6
5	20A31A1243	Kone Ram Lal Suresh	IT	II-II	8.6

**The following are the academic toppers for III Year II Semester and the pass percentage is 78.46%.**

S.No.	Roll No.	Name	Branch	Year - Sem	SGPA
1	19A31A1238	Yatam Rama Sesha Nishitha	IT	III-I	8.4
2	19A31A1206	Chagalla Vinitha	IT	III-II	8.5
3	19A31A1217	Gollapalli Udaya Sri	IT	III-II	8.5
4	19A31A1218	Gundu Sai Lahari	IT	III-II	8.5
5	19A31A1230	Pothula Lakshmi Bhavana	IT	III-II	8.5
6	19A31A1231	Potti Krishna Ratna Roshini	IT	III-II	8.5

□ **The following are the academic toppers for IV Year I Semester and the pass percentage is 83.33%.**

S.No.	Roll No	Name	Branch	Year -Sem	SGPA
1	18A31A1202	Balusu Lakshmi Sowjanya	IT	IV-II	8.91
2	18A31A1208	Korada Vyshnavi Devi	IT	IV-II	8.91
3	18A31A1220	Pentyala Sai Mounica	IT	IV-II	8.77



# **EDITORIAL BOARD**

## **Faculty members**

**Mrs. N V S Sowjanya – Convener**

**Mrs. T Ganga Bhavani – Member**

**Ms. B Preethi Devi – Member**

## **Student members**

**Ms. Alugolu Anusha (III  
B.Tech.)**

**Mr. K Sai Harsha (III B.Tech.)**