

PKM Educational Trust



R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognized by Govt. of Karnataka, Accredited by NAAC with B+

Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090



PRO-GEEKS – News Letter_2023-24

VOLUME 8

ISSUE 1

FROM THE PRINCIPAL DESK

“We cannot always build the future for our youth, but we can build our youth for the future.” Season’s Greetings to you! At RRIT, the students are made industry ready by imparting the skill sets that are required to be employed in multi- nationals. All the students are encouraged to participate in at least one curricular.

ABOUT THE DEPARTMENT

The Department of Computer Science and Engineering was established in the year 2008 from the inception of the college with an intake of 180.

VISION

- To arise as an excellent learning center in the field of Computer Science & Engineering by fostering a skilled, innovative professionals to build a strong nation.

MISSION

- To provide a conceptual foundation that caters the career required to adopt for changing technology in computer science.
- To bridge the gap between academics and the latest tools, technologies in the area of hardware and software.
- To set out co-curricular open doors for student’s participation in advancements and recent trends.
- To explore the potential and excel the students towards research to attain Novelty.

FROM HOD’S DESK

The Motto of our Department is 'Creativity, Hard work & Intelligence always pays'. Our Department of Computer Science & Engineering aims at providing Student Excellent knowledge about New Technologies. Students are well equipped to Publish Papers. We provide Students an opportunity to explore their interests in New technologies. It is indeed my great pleasure that our Department is publishing Newsletter etching every aspect of activities and events held in Academic session 2023-24 ODD Semester.

FROM EDITOR’S DESK

Welcome to the Newsletter Edition!!

I am delighted to bring this 2023-24 Academic Session Newsletter.

Enjoy reading.....



Dr. Mahendra K
Principal, RRIT

Editorial Desk

Chief Editor

Dr. Manjunath R
Professor & Head
CSE Department, RRIT

Editor

Prof. Lakshmi Devi H M
Assistant Professor
CSE Department, RRIT

Student Members

Sharath R, 8th Semester
Tharun , 6th Semester
Yeshwanth, 4th Semester



Dr. Manjunath R
Professor & Head, RRIT

Department Activities

Sl. No.	Name of The Activity	Date	Resource Person
1.	FDP on “Image Processing using Python” ,	11 th – 15 th September 2023,	Ms. Megha B S , Software Developer Mevi Technologies, Bengaluru Mr. Vijay B R, Software Developer, Mevi Technologies, Bengaluru
2.	Visit to “India Manufacturing Show (IMS 2023), at Bangalore International Exhibition Centre, Bengaluru	3 rd November 2023	--
3.	Workshop on “Boot Camp on Data Analytics” in Association with CSI Student Chapter, Bengaluru,	07 th November 2023	Mr. Shaik Johnny Basha, Founder and CEO ,Study Comrade Pvt. Ltd.Bengaluru
4.	Awareness Program on “VLSI/ SEMICONDUCTOR & Industry Opportunities”	4 th December 2023	Mr. Yeswant Kumar, Physical Design Engineer, Takshila Institute of VLSI Technologies, Bengaluru
5.	Workshop on “Machine Learning with Python”,	7 th December 2023	Ms. Reddy Gari Divyanjali, Senior machine learning Developer, Pantech e Learning
6.	SDP on “Data Analytic Tools and Techniques for Industry”	8 th December 2023	Mr. Shaik Johnny Basha , Founder and CEO , Study Comrade Pvt. Ltd.
7.	Awareness Program on “All Six Industry Domain of AI”	2 nd January 2024	Mr. Arul Nambi, CTO at EdSols Innovations, Bengaluru, Karnataka, India
8.	A Technical Seminar on “Full Stack Development & Testing”	09 th January 2024	Mr. Safan Ahmed , Java full stack developer & trainer , Excelr Edtech Private Limited
9.	Workshop on “ Machine Learning and Artificial Intelligence in the Healthcare System”	11 th – 13 th January 2024	Mr.Mahesh Deginal , Managing Director & CEO Karunadu Technologies Private Limited, Bengaluru Mr. Harish N , CTO & Co-Founder , Karunadu Technologies Private Limited, Bengaluru Mr.Sunil Kumar S , Development team lead and Co –founder , Karunadu Technologies Private Limited, Bengaluru
10.	Industrial Visit to “Nanatom Technologies Pvt. Ltd.”, Bengaluru	19 th January 2024	
11.	A Certificate Program on “ Mastering Classes and Objects in Java: A comprehensive Hands on Guide”	27 th – 27 th January 2024	Ms. Megha B S , Software Developer and Trainer Mevi Technologies LPP, Bengaluru Mr. Vijay B R , Software Developer and Trainer , Mevi Technologies LPP, Bengaluru Ms. Manogna M S , Developer and Trainer Mevi Technologies LPP, Bengaluru

Student News

- ✓ Veeksha Got second place in 1st idea pitching competition on 3rd December 2022 by RR Institute of technology Veeksha S, Awarded 3rd Prize for Business Plan, at The Oxford College Of Engineering, Bengaluru, held on 21st & 22nd December 2023
- ✓ Gayathri A V, Computer Vision and Image Processing - Fundamentals and Applications, NPTEL, Ministry of Education, Government of India

- ✓ Archak Bose, Programming, Data Structures and Algorithms using Python, NPTEL, Ministry of Education, Government of India
- ✓ Harshini G B, The Joy of Computing using Python, NPTEL, Ministry of Education, Government of India
- ✓ Veeksha S, Introduction to Industry 4.0 and Industrial Internet of Things, NPTEL, Ministry of Education, Government of India
- ✓ Manoj Gowda N, Introduction to Industry 4.0 and Industrial Internet of Things, NPTEL, Ministry of Education, Government of India
- ✓ Kruthi M L, Introduction to Industry 4.0 and Industrial Internet of Things, NPTEL, Ministry of Education, Government of India
- ✓ Dhrub Pandit, Programming, Data Structures and Algorithms using Python, NPTEL, Ministry of Education, Government of India

Department & Staff News

- ✓ Dr.Swetha G, Python for Data Science, NPTEL, Ministry of Education, Government of India
- ✓ Prof. Lakshmidhevi, Introduction To Machine Learning, NPTEL, Ministry of Education, Government of India
- ✓ Prof. Lakshmidhevi, Basics of Software Defined Radios, NPTEL, Ministry of Education, Government of India
- ✓ Prof. Veena V, Python for Data Science, NPTEL, Ministry of Education, Government of India
- ✓ Prof. Veena V, Introduction To Machine Learning, NPTEL, Ministry of Education, Government of India
- ✓ Dr. Manjunath R, Software Conceptual Design, NPTEL, Ministry of Education, Government of India

International Journal Publication










- ✓ Dr. Swetha G, Asha V, Veena V Power quality improvement in power distribution system with the placement of DG using TLBO optimization technique International (Scopus)ISBN: 979-8-3503-1545-5/23IEEE
- ✓ Lakshmidhevi H M Quantitative Survey On Software Defined Networks (Sdn) In Vanets International (Scopus)ISBN:979-8-3503-4173-7IEEE
- ✓ Shivakumar Swamy, Niranjana R Chougala Detection of Pothole by Applying Convolutional Neural Network and Random Forest Techniques International (Scopus)ISSN: 2321-8169, Volume: 11 Issue: 9International Journal on Recent and Innovation Trends in Computing and Communication (Elsevier)
- ✓ Manjunath R Electronic Monitoring and Control of Environmental Parameters Using IoT International (Scopus)ISSN:979-8-3503-7086-7/23906555/DOI: <https://doi.org/10.1109/NMITCON58196.2023.10275984>IEEE
- ✓ Manjunath R Hybrid Machine Learning Technique to Detect Active Botnet Attacks for Network Security and Privacy International (Scopus)ISSN:2788-7669, Volume 03, Issue 04 (2023)Journal of Machine and Computing
- ✓ Manjunath R Wireless Sensor Network Routing Protocols, Challenging Issues And Performance Comparison International (Scopus)ISSN: 1992-8645 , Volume101. No 19, (2023)Journal of Theoretical and Applied Information Technology
- ✓ Manjunath R, Shivakumar Swamy N., Niranjana R. Chougala A Smart Biomedical Healthcare System to Detect Stress using Internet of Medical Things, Machine Learning and Artificial Intelligence International (Scopus)ISSN:2147-6799, Volume 11, No. 4 (2023)International Journal of Intelligent Systems and Applications in Engineering (IJISAE-Elsevier)
- ✓ Dr. Swetha GReal-Time Challenges and Opportunities for an Effective Resource Management in Multi-cloud Environment International (Springer)2661-8907SN Computer Science
- ✓ Dr. Swetha G Substantial Transformative Control Algorithm Coordinated with Facts Devices Constrained for Optimal Power Flow Control International (Springer)2348-8379International Journal of Electrical and Electronics Engineering
- ✓ Dr. swetha G, Veena M S Robotization of Agriculture Using Image Processing TechniquesIEEEISBN:979-8-3503-1861-6IEEE

Faculty Participation

Faculty Name	Date	Name of Program	Organization Name & Place	FDP/Workshop/Seminar
Dr.Swetha G	11/9/23 - 15/9/23	Image Processing Using Python	Mevi Technologies(RRIT)	FDP
Dr.Swetha G	22/08/23	The Applications Of Internet Of Things	BVICAM, New Delhi.	SEMINAR

		(Iot) And Wireless Sensor Network (WSN) In Smart Agriculture		
Dr.Swetha G	18/08/2023	Artificial Intelligence Nad Future Of Humans	KVR,Khajipelam	SEMINAR
Dr.Swetha G	25th Sep - 14th Oct 2023.	Cyber Security	Chaitanya Bharathi Institute Of Technology	FDP
Dr.Swetha G	Jul-Aug 2023	Python For Data Science	NPTEL	FDP
Dr. Manjunath R	Jul-Oct 2023	Cloud Computing	Nptel	FDP
Dr. Manjunath R	Aug-Sep 2023	Software Conceptual Design	Nptel	FDP
Dr. Manjunath R	11/12/2023 - 16/12/2023	Computational Intelligence For Cybernetics/Criminal Laws And Its Application In Forensic Science	City Engineering College, Bengaluru	FDP
Dr. Manjunath R	4/12/2023 - 9/12/2023	Basic Mathematical And Statistical Foundation For Cybernetics, Criminal Laws And Cyber Security	City Engineering College, Bengaluru	FDP
Dr. Manjunath R	11/09/2023 - 15/12/2023	Image Processing Using Python	Mevi Technology LLP, Bengaluru	FDP
Dr. Manjunath R	17/11/2023	Research Symposium On Synergistic Innovations	RNS Institute Of Technology, Bengaluru	FDP
Kruthi T C	4/12/2023 - 9/12/2023	Basic Mathematical And Statistical Foundation For Cybernetics, Criminal Laws And Cyber Security	City Engineering College	FDP
Kruthi T C	11/12/2023 - 16/12/2024	Computational Intelligence For Cybernetics/Criminal Laws And Its Application In Forensic Science	City Engineering College	FDP
Dr.Swetha G	04/12/2023 - 09/12/2023.	Deep Dive Into Teaching: Unleashing Deep Learning For Educators	APS College Of Engineering	FDP
Veena V	Jul-Aug 2023	Python For Data Science	NPTEL	FDP
Veena V	Jul-Aug 2023	Introduction To Machine Learning	NPTEL	FDP
Sowmya N	11/9/23 - 15/9/23	Image Processing Using Python	Mevi Technolgies(RRIT)	FDP
Veena M S	11/9/23 - 15/9/23	Image Processing Using Python	Mevi Technolgies(RRIT)	FDP
Lakshmidevi H M	11/9/23 - 15/9/23	Image Processing Using Python	Mevi Technolgies(RRIT)	FDP
Kruthi T C	11/9/23 - 15/9/23	Image Processing Using Python	Mevi Technolgies(RRIT)	FDP
Shruthi S	11/9/23 - 15/9/23	Image Processing Using Python	Mevi Technolgies(RRIT)	FDP
Dr. Niranjan R C	11/9/23 - 15/9/23	Image Processing Using Python	Mevi Technolgies(RRIT)	FDP
Dr. Shivakumar Swamy N	11/9/23 - 15/9/23	Image Processing Using Python	Mevi Technolgies(RRIT)	FDP

TOPPER LIST

Semester (ODD)	Topper – 1	Topper – 2	Topper - 3
3	 <p>Harshini G B 1RI22CS041 91%</p>	 <p>Chandana T 1RI22CS029 89.5%</p>	 <p>Harshitha S G 1RI22CS044 89.1%</p>
5	 <p>Sahana M R 1RI21CS097 88%</p>	 <p>Pallavi S 1RI21CS076 87.62%</p>	 <p>Srilakshmi M 1RI21CS112 86.62%</p>
7	 <p>Tejaswini R C 1RI20CS057 89.28%</p>	 <p>Manjil D 1RI20CS064 87.42%</p>	 <p>Ananaya E 1RI20CS008 87.42%</p>

Gallery



A Six Days Certification Program on “Python, Artificial Intelligence, Machine Learning, Deep Learning & Natural Language Processing” on 16th to 21st October 2023



“Awareness Program on “VLSI/SEMICONDUCTOR & Industry Opportunities on Blended Mode” On 4th December 2023



One day workshop on “Machine Learning with Python” 7th December 2023



Awareness Program on “All Six Industry Domain of AI” On 2nd January 2024



SDP on "Data Analytic Tools and Techniques for Industry" On 8th December 2023



Three day Workshop on "Machine learning & Artificial intelligence in healthcare system" from 11th to 13th January 2024



Industrial Visit to "Nanatom Technologies Pvt Ltd" Bengaluru on 19/01/2024



Certificate program on "Mastering Classes & Objects in Java: A comprehensive Hands on guide" from 22nd to 27th January 2024

Programme Outcomes (PO's)	
PO1	Engineering Knowledge: Apply knowledge of mathematics and science, with fundamentals of Computer Science & Engineering to be able to solve complex engineering problems related to CSE.
PO2	Problem Analysis: Identify, Formulate, review research literature and analyse complex engineering problems related to CSE and reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.
PO3	Design/Development of Solutions: Design solutions for complex engineering problems related to CSE 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 computer science related 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 CSE professional engineering practice.
PO7	Environment and Sustainability: Understand the impact of the CSE 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.
PO10	Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large such as able to comprehend and with 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 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 the broadest context of technological change.
Program Specific Outcomes (PSO's)	
PSO 1	Apply the software practice, principals to design and analysis of complex computer based system
PSO2	Design implements and validate system and application software to the various societal needs
Program Education Objectives(PEO's)	
PEO1	Proficiency to recognize contemporary issues and provide solutions using broad knowledge of computer science.
PEO2	Ability to plan, analyze, design, evolve project implementing capabilities and skills in IT industry.
PEO3	Drive to adapt new computing technologies lifelong to acquire professional greatness.
PEO4	Possess professional, ethical, social responsibilities, communication skills and teamwork needed for a successful professionalist.