January 2021-June 2021

IT BULLETIN

Department Of Information Technology

Newsletter Editorial Board
Editorial Committee:
Mrs. Dr. R.Madhumitha, Mr.V.Jothi Prakash
Student Members:
Abdulla Khaf S, Abinanthan

Department of Information Technology

VISION

To provide reliable and modern technology resource to the faculty and student to develop the competence in Information Technology and to endure with the rapidly changing world to serve mankind.

MISSION

- Imparting technical knowledge through innovative teaching and research for budding professionals.
- To equip the students with strong fundamentals, programming and problem solving skills with an exposure to emerging technologies and inculcate leadership qualities with a passion to serve society.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

1. **PEO1:** Graduates will be able to comprehend mathematics, science, engineering fundamentals, laboratory and work-based experiences to formulate and solve problems in the domain of Information Technology and acquire proficiency in computer-based engineering and the use of computation tools.
2. **PEO2:** Graduates will be prepared to communicate and work effectively on the multidisciplinary engineering projects and practicing the ethics of their profession.
3. **PEO3:** Graduates will realize the importance of self-learning and engage in lifelong learning to become experts either as entrepreneurs or employees in the field to widen the professional knowledge.

PROGRAMME OUTCOMES (Pos)

- **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, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **PO3: 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.
- **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 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, 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 multidisciplinary 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.

PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO-1   Ability to organize an IT infrastructure, secure the data and analyze the data analytic techniques in the field of data mining, big data as to facilitate in solving problems.

PSO-2   Ability to analyze and design the system in the domain of Cloud and Internet of Things.

IT BULLETIN

DEPARTMENT OF INFORMATION TECHNOLOGY (Jan –July 2021)

DEPARTMENT ACTIVITIES

❖ Organized a webinar on IMPORTANCE OF HIGHER EDUCATION on 26.03.2021.

Praveen Chandrasekaran

Book Publications :
❖ Ms.B.P.SREEJA Published book in the title of ARTIFICIAL INTELLIGENCE in CHARULATHA PUBLISHER April 2021, ISBN NO . 978-93-90614-85-1.
❖ Dr.R.MADHUMITHA Published book in the title of ARTIFICIAL INTELLIGENCE in CHARULATHA PUBLISHER April 2021, ISBN NO . 978-93-90614-85-1.

Paper Presentation– International/ National conferences

Dr. R. MADHUMITHA, Professor

❖ Presented a paper titled An Approach for Cloud Linux Server Security and Management in International Conference on Intelligent Systems and Control(ISCO) at Karpagam College of Engineering,Coimbatore on 23.04.2021
❖ Presented a paper titled IOT Based Smart Agriculture Monitoring System in International Conference on Intelligent Systems and Control(ISCO) at Karpagam College of Engineering,Coimbatore on 23.04.2021
❖ Presented a paper titled Grocery Price Recommender System Using Cloud Computing in International Conference on Intelligent Systems and Control(ISCO) at Karpagam College of Engineering,Coimbatore on 23.04.2021

Ms .B. P. SREEJA, Assistant Professor

❖ Presented a paper titled Smart Helmet for Alcohol Detection to Prevent From Accidents in International Conference on Intelligent Systems and Control(ISCO) at Karpagam College of Engineering,Coimbatore on 23.04.2021
❖ Presented a paper titled Crop Protection from Animal Using IoT in International Conference on Intelligent Systems and Control(ISCO) at Karpagam College of Engineering,Coimbatore on 23.04.2021
❖ Presented a paper titled Opinion Mining For Twitter in International Conference on Intelligent Systems and Control(ISCO) at Karpagam College of Engineering,Coimbatore on 23.04.2021

Ms .S. LAVANYA, Assistant Professor

❖ Presented a paper titled Machine Learning Based Approaches for Healthcare Fraud Detection: A Comparative Analysis in International Conference on Intelligent Systems and Control(ISCO) at Karpagam College of Engineering,Coimbatore on 23.04.2021
❖ Presented a paper titled Emotional Based Song Recommendation Using Image Processing in International Conference on Intelligent Systems and Control(ISCO) at Karpagam College of Engineering,Coimbatore on 23.04.2021

- ❖ Presented a paper titled Automation of Soil Moisture Detection and Irrigation System Using IoT in International Conference on Intelligent Systems and Control(ISCO) at Karpagam College of Engineering,Coimbatore on 23.04.2021

Ms.S.GAYATHRI,Assistant professor

- ❖ Presented a paper titled Advance Women Safety Security System Using GSM & GPS Tracking in International Conference on Intelligent Systems and Control(ISCO) at Karpagam College of Engineering,Coimbatore on 23.04.2021
- ❖ Presented a paper titled Sentiment Analysis Framework for Social Media in International Conference on Intelligent Systems and Control(ISCO) at Karpagam College of Engineering,Coimbatore on 23.04.2021
- ❖ Presented a paper titled Covid-19 Future Forecasting Using LASSO, SVM, LR and ES Model in International Conference on Intelligent Systems and Control(ISCO) at Karpagam College of Engineering,Coimbatore on 23.04.2021

Ms.J.ANTONITA SHILPA,Assistant professor

- ❖ Presented a paper titled Gradient Descent Approximation for Smoothening Prediction in International Conference on Intelligent Systems and Control(ISCO) at Karpagam College of Engineering,Coimbatore on 23.04.2021
- ❖ Presented a paper titled Development of Smart Helmet Based On IoT Technology For Safety And Accident in International Conference on Intelligent Systems and Control(ISCO) at Karpagam College of Engineering,Coimbatore on 23.04.2021

Ms .A.SUGANYA, Assistant Professor

- ❖ Presented a paper titled A Study on Discovering Malicious Nodes on MANET Through Secure Intrusion Detection in International Conference on Intelligent Systems and Control(ISCO) at Karpagam College of Engineering,Coimbatore on 23.04.2021
- ❖ Presented a paper titled MRI Image Classification of brain Tumor using DeepLearning in International Conference on Intelligent Systems and Control(ISCO) at Karpagam College of Engineering,Coimbatore on 23.04.2021
- ❖ Presented a paper titled Identify Similar Query On Stack Overflow using Deep Learning And NLP in International Conference on Intelligent Systems and Control(ISCO) at Karpagam College of Engineering,Coimbatore on 23.04.2021

Mr .R. VIKKRAM,Assistant Professor

- ❖ Presented a paper titled Efficient transmission using a visible light technology for data communication- A LIFI approach in International Conference on Intelligent Systems and Control(ISCO) at Karpagam College of Engineering,Coimbatore on 23.04.2021
- ❖ Presented a paper titled Extension of Era of Wireless Sensor Network using an Expert Bee Colony Grouping Procedure in International Conference on Intelligent Systems and Control(ISCO) at Karpagam College of Engineering,Coimbatore on 23.04.2021
- ❖ Presented a paper titled Toxic Gas Detection with Alert System using WIFI Module and GSM in International Conference on Intelligent Systems and Control(ISCO) at Karpagam College of Engineering,Coimbatore on 23.04.2021
- ❖ Presented a paper titled IoT based Air Pollution Monitoring System in International Conference on Intelligent Systems and Control(ISCO) at Karpagam College of Engineering,Coimbatore on 23.04.2021
- ❖ Presented a paper titled E Learning platform using Cloud Computing in International Conference on Intelligent Systems and Control(ISCO) at Karpagam College of Engineering,Coimbatore on 23.04.2021

Ms.S.GAYATHRI,Assistant professor

- ❖ Presented a paper titled Cybernated Video Player Using Image Processing in International Conference on Intelligent Systems and Control(ISCO) at Karpagam College of Engineering,Coimbatore on 23.04.2021
- ❖ Presented a paper titled Healthcare Chat Bot for Self Diagnosis Using Artificial Intelligence in International Conference on Intelligent Systems and Control(ISCO) at Karpagam College of Engineering,Coimbatore on 23.04.2021
- ❖ Presented a paper titled Comparative study of Efficient Methodology for Tumor Detection in International Conference on Intelligent Systems and Control(ISCO) at Karpagam College of Engineering,Coimbatore on 23.04.2021
- ❖ Presented a paper titled Secured Authentication Mechanism for users using Virtual Reality in International Conference on Intelligent Systems and Control(ISCO) at Karpagam College of Engineering,Coimbatore on 23.04.2021

Mr.P.JEGATHESH,Assistant professor

- ❖ Presented a paper titled Coma Patient Monitoring System Using IoT in International Conference on Intelligent Systems and Control(ISCO) at Karpagam College of Engineering,Coimbatore on 23.04.2021
- ❖ Presented a paper titled Water Level Monitoring and Management of Dams Using IoT in International Conference on Intelligent Systems and Control(ISCO) at Karpagam College of Engineering,Coimbatore on 23.04.2021
- ❖ Presented a paper titled Creating Secure Cloud in a Virtual Environment with the Support of Cloud Service Providers in International Conference on Intelligent Systems and Control(ISCO) at Karpagam College of Engineering,Coimbatore on 23.04.2021

Ms.P.ARULMOZHI,Assistant professor

- ❖ Presented a paper titled Match Fixtures Using Web Development in International Conference on Intelligent Systems and Control(ISCO) at Karpagam College of Engineering,Coimbatore on 23.04.2021
- ❖ Presented a paper titled Detecting Phishing Websites Using Machine Learning Approach in International Conference on Intelligent Systems and Control(ISCO) at Karpagam College of Engineering,Coimbatore on 23.04.2021

Journal Publication– International/ National conferences

Dr. R. MADHUMITHA, Professor
- ❖ Published a paper titled An approach for cloud linux server security and management in Annals of the romaninan society for cell biology Vol. 25 Issue No. pp.2453-2459, 2021.
- ❖ Presented a paper in the title of IoT based Verticrop Monitoring and Controlling in E conference on Information ,Communication and Networking at EASWARI ENGINEERING COLLEGE ,2021
- ❖

Ms .B. P. SREEJA, Assistant Professor

- ❖ Published a paper titled Smart helmet for alcohol detection to prevent from accidents in Annals of the romaninan society for cell biology Vol. 25 Issue No. pp.2808 - 2815, 2021.
- ❖ Presented a paper in the title of Application of Analytical Hierarchy Process (AHP) in Construction Works in E conference on Information ,Communication and Networking at EASWARI ENGINEERING COLLEGE ,2021
- ❖ Presented a paper in the title of Use of Construction and Demolition Waste for Ground Improvement in E conference on Information ,Communication and Networking at EASWARI ENGINEERING COLLEGE ,2021

Ms .S. LAVANYA, Assistant Professor
- ❖ Published a paper titled Machine learning based approaches for healthcare fraud detection: a comparative analysis in Annals of the romaninan society for cell biology Vol. 25 Issue No. pp.8644–8654, 2021.

Ms.S.GAYATHRI,Assistant professor

- ❖ Published a paper titled Comparative study of efficient methodology for tumor detection in Annals of the romaninan ociety for cell biology Vol. 25 Issue No. pp.8087-8093, 2021.
- ❖ Presented a paper in the title of Waste Management in Fishery Industry: A Review in E conference on Information ,Communication and Networking at EASWARI ENGINEERING COLLEGE ,2021
- ❖

Ms. S. GAYATHRI, Assistant professor

- ❖ Published a paper titled Secure authentication mechanism for users using virtual reality in Annals of the romaninan society for cell biology Vol. 25 Issue No. pp.8622-8628, 2021.

Ms .A.SUGANYA, Assistant Professor

- ❖ Published a paper titled A study on discovering malicious nodes on manet through secure intrusion detection in Annals of the romaninan society for cell biology Vol. 25 Issue No. pp.2444-2452, 2021.
- ❖ Presented a paper in the title of Design and Implementation of Microstrip Line Based Stepped Impedance Low Pass Filter in E conference on Information ,Communication and Networking at EASWARI ENGINEERING COLLEGE ,2021
- ❖

Ms. J ANTONITA SHILPA, Assistant professor

- ❖ Published a paper titled Forecasting - mining prediction of water consumption for residential sectors in Annals of the romaninan society for cell biology Vol. 25 Issue No. pp.2918-2924, 2021.
- ❖ Published a paper titled Use case building from gathered requirements based on story telling techniques for design development in Annals of the romaninan society for cell biology Vol. 25 Issue No. pp.2907-2911, 2021

Mr .R. VIKKRAM,   Assistant Professor

- ❖ Published a paper titled Extension of era of wireless sensor network using an expert bee colony grouping procedure in Annals of the romaninan society for cell biology Vol. 25 Issue No. pp.2570-2578, 2021.
- ❖ Published a paper titled Efficient transmission using a visible light technology for data communication- a lifi approach in Annals of the romaninan society for cell biology Vol. 25 Issue No. pp.2644-2652, 2021.

Mr .V. JOTHIPRAKASH, Assistant Professor

- ❖ Published a paper titled Enhanced evolutionary feature selection and ensemble method for cardiovascular disease prediction in Interdisciplinary sciences: computational life sciences - springer Vol. 13 Issue No. pp.389–412 , 2021.

Ms. Sakthipriya. K.

- ❖ Presented a paper in the title of Determination of Efficiency of Roughing Filter for Grey Water Treatment in E conference on Information ,Communication and Networking at EASWARI ENGINEERING COLLEGE ,2021

Mr. Surenther. I.

- ❖ Presented a paper in the title of Automated Footbridge Across Platform At Railway Station in E conference on Information ,Communication and Networking at EASWARI ENGINEERING COLLEGE ,2021
- ❖ Presented a paper in the title of Smart Tutor for Visually Impaired Beginners in E conference on Information ,Communication and Networking at EASWARI ENGINEERING COLLEGE ,2021

Seminar / Workshop / FDPs / STTPs – Presented / Attended

Dr. R. MADHUMITHA, Professor

- ❖ Attended FDP on Soft Skill Development at Karpagam College of Engineering from 12-01-2021 to 31.03.2021.

Mr. I. SURENTHER ,Assistant Professor
- ❖ Attended ONLINE INTERNATIONAL FDP ON APPLICATION OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING WITH DIGITAL IMAGE PROCESSING at Panimalar Institute of Technology from 21-06-2021 to 26-06-2021.

Mr. P. JEGATHESH, Assistant Professor
- ❖ Attended Online FDP on Data Science at Saintgits College of Engineering from 18-01-2021 to 22-01-2021.

Mr .R. VIKKRAM, Assistant Professor
- ❖ Attended National Online Faculty Development Program on MULTI TECHNOLOGY at Anantha lakshmi Institute of technology and Sciences from 28-06-2021 to 03-07-2021.
- ❖ Attended FDP on Python at E& ICT IIT Kanpur from 14-06-2021 to 19-06-2021.
- ❖ Attended Faculty Development Program on Cloud computing at E& ICT IIT Kanpur from 07-06-2021 to 12-06-2021.
- ❖ Attended Online FDP on Recent Research Issues on Digital Image Processing at Sri Ramakrishna Institute of Technology from 24-05-2021 to 28-05-2021.

Mr .V. JOTHIPRAKASH, Assistant Professor
- ❖ Attended Online Elementary FDP on Artificial Intelligence at Birla Institute of Technology Ranchi from 25-01-2021 to 29-01-2021.
- ❖ Attended Online FDP on Data Science at Saintgits College of Engineering from 18-01-2021 to 22-01-2021.

Ms .A.SUGANYA, Assistant Professor
- ❖ Attended Online Workshop on "An Overview on Patents and Procedure for Protection at Francis Xavier Engineering College on 05-06-2021

Ms .B. P. SREEJA, Assistant Professor
- ❖ Attended Online FDP on Quantum Artificial Intelligence at Indian Institute of Information Technology Pune from 24-05-2021 to 28-05-2021.
- ❖ Attended FDP on Soft Skill Development (NPTEL) at Karpagam College of Engineering from 12-01-2021 to 31.03.2021.

Ms .S. LAVANYA, Assistant Professor
- ❖ Attended Online FDP on Recent Research Issues on Digital Image Processing at Sri Ramakrishna Institue of Technology from 24-05-2021 to 28-05-2021.
- ❖ Attended FDP on Problem solving through Programming in C(NPTEL) at Karpagam College of Engineering from 12-01-2021 to 16-04-2021.
- ❖ Attended Online FDP on Artificial Intelligence at Manipal University Jaipur from 08-02-2021 to 12-02-2021.
- ❖ Attended Online FDP on IOT at Sri Manakula Vinayagar Engineering College from 01-02-2021 to 05-02-2021.

FACULTY ACHIEVEMENTS

- ❖ Mr.V.Jothi prakash has Got GOLD Rank in Digital Skills Readiness Program -Advanced technology Certified faculty for Successfully completed Talent Next Project on Artificial Intelligence and Machine learning During January -April 2021.