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## Department of Computer Science and Business Systems

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Issue 1

### NEWS LETTER

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**2023-2024**

## CONTENTS

❑ **Mission**

❑ **Vision**

❑ **PEO'S**

❑ **About the Department**

❖ **Department Events**

❑ **Symposium, Workshops & Guest Lecture organized by the Department**

❑ **Sports Activities**

❑ **FDP/Workshop attended by the Faculty**

❑ **FDP/Workshop/Paper Presentation attended by the Students**

## **Department Vision**

To provide the best opportunity to the students to attain technical excellence in the field of Computer Science and Business Systems Engineering and to produce competitive and versatile computer engineers.

## **Department Mission**

1. Educating students with the background of fundamentals, stretching their imagination to meet the challenges in the field of Computer Science and Business Systems.
2. Transforming the emerging technology to the young minds by effective teaching learning process.
3. Imparting the self learning ability, leadership and managerial quality to the students.

## **Programme Educational Objectives (PEOs)**

**PEO1** - To ensure graduates will be proficient in utilizing the fundamental knowledge of basic sciences, mathematics, Computer Science and Business systems for the applications relevant to various streams of Engineering and Technology.

**PEO2** - To enrich graduates with the core competencies necessary for applying knowledge of computer science and Data analytics tools to store, retrieve, implement and analyze data in the context of business enterprise

**PEO3** - To enable graduates to gain employment in organizations and establish themselves as professionals by applying their technical skills and leadership qualities to solve real world problems and meet the diversified needs of industry, academia and research

**PEO4** - To equip the graduates with entrepreneurial skills and qualities which help them to perceive the functioning of business, diagnose business problems, explore the entrepreneurial opportunities and prepare them to manage business efficiently.

## Programme 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.

## Programme Specific Outcomes (PSOs)

At the end of the programme, the graduates will be able to:

- PSO1** - To create, select, and apply appropriate techniques, resources, modern engineering and business tools including prediction and data analytics to complex engineering activities and business solutions
- PSO2** - To evolve computer science domain specific methodologies for effective decision making in several critical problem domains of the real world.
- PSO3** - To be able to apply entrepreneurial skills and management tools for identifying, analyzing and creating business opportunities with smart business ideas
- PSO4** - To manage complex IT projects with consideration of the human, financial, ethical and environmental factors and an understanding of risk management processes, and operational and policy implications

## VALUE ADDED COURSE



Department of computer science and business systems organized a 5 day Value added course on **Cloud Computing Technologies (Microsoft Azure, Amazon)** from 06/03/2024 to 09/03/2024. Ms.M.Anitha Head of Department introduced a chief guest Mr.Venkatesan Gopal, Senior Solution Architect, Finastra MISYS, A sonata software services company, Chennai. This course focused in enabling the students for using and understanding AZURE AD RBAC. Understand the potential impact of cloud technologies on various industries. Provided insight into the emerging trends and future directions of AWS cloud. At valedictory ceremony, the participants were awarded the certificates. The ceremony function came to an end with a group photo session.

## **FDP/WORKSHOP/JOURNAL/CONFERENCE ATTENDED BY THE FACULTIES**

- ✓ Ms. M. Anitha – attended an Online FDP on Five Days National Level Online Faculty Development Programme on “Unlocking Industry Insights in Data Science” from 12.02.2024 to 16.02.2024 organized by Department of Computer Science & Engineering (Data Science), Madanapalle Institute of Technology & Science, Madanapalle-517325.
- ✓ Ms. M. Anitha – Published a Book Chapter titled Artificial Intelligence – Emerging Marketing in Economies, Challenges, Opportunities, with Integrated Development of SMES in PMS in Futuristic Trends in Computing Technologies and Data Sciences, e-ISBN: 978-93-6252-441-6, IIP Series, Volume 3, Book 6, Part 1, Chapter 1 February 2024.
- ✓ Ms. M. Anitha – Published a Journal titled Dynamic Mobile Cloud Ecosystem Security a Review in International Journal of Data Informatics and Intelligent Computing. March 23, 2023
- ✓ Ms. M. Anitha – Published a Journal titled Skin Cancer Detection Using Deep Learning a Review in International Journal of Scientific Research in Engineering & Management, May, 2023
- ✓ Ms. M. Anitha – attended FDP on Full Stack with Python Programming at KCG College of Engineering and Technology, Chennai.

# INPLANT TRAINING/INTERNSHIP/WORKSHOP/ PAPER PRESENTATION ATTENDED BY THE STUDENTS

| S. No. | Academic Year | Event Type<br>Workshop/<br>Conference/<br>Symposium | College<br>/Industry/Univ<br>ersity<br>Attended | Name of the Event                                  | Students<br>Participated                                                                                                                               | Prizes /<br>Awards Won |
|--------|---------------|-----------------------------------------------------|-------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| 1      | 2023-24       | Online Course                                       | Infosys<br>Springboard                          | Introduction To Java                               | Velmurugan S<br>Dharshan J<br>Logeswaran S                                                                                                             | Completed              |
| 2      | 2023-24       | Project Expo-24                                     | Kingston<br>Engineering<br>College              | Project Expo-24                                    | Logeswaran S<br>Sarath Kumar U<br>Rohith R<br>Chethanprasath T C                                                                                       | Second Prize           |
| 3      | 2023-24       | Workshop                                            | Kingston<br>Engineering<br>College              | Self Defence Training<br>Program for Girls         | Sathyasadhana S<br>Salini V<br>Priyanka S<br>Mathumitha S<br>Gayathri G<br>Monica B<br>Monica P<br>Gayathri G<br>Harini Sree S<br>Divya K<br>Archana G | Participated           |
| 4      | 2023-24       | Online Course                                       | Infosys<br>Springboard                          | Personal Skills For<br>Effective Business Analysis | Priyanka S                                                                                                                                             | Completed              |
| 5      | 2023-24       | Online Course                                       | Infosys<br>Springboard                          | Business Analysis<br>Analytical Techniques         | Priyanka S                                                                                                                                             | Completed              |
| 6      | 2023-24       | Online Course                                       | Infosys<br>Springboard                          | Cloud Computing                                    | Priyanka S                                                                                                                                             | Completed              |
| 7      | 2023-24       | Online Course                                       | Infosys<br>Springboard                          | Python Programming-01                              | Priyanka S                                                                                                                                             | Completed              |
| 8      | 2023-24       | Online Course                                       | Infosys<br>Springboard                          | Machine Learning With<br>Matlab                    | Priyanka S                                                                                                                                             | Completed              |
| 9      | 2023-24       | Online Course                                       | Infosys<br>Springboard                          | Self Defence Training<br>Program For Girls         | Priyanka S                                                                                                                                             | Completed              |
| 10     | 2023-24       | Online Course                                       | Infosys<br>Springboard                          | Business Analyst To Data<br>Analyst                | Priyanka S                                                                                                                                             | Completed              |
| 11     | 2023-24       | Online Course                                       | Infosys<br>Springboard                          | Business Analyst                                   | Priyanka S                                                                                                                                             | Completed              |
| 12     | 2023-24       | Online Course                                       | Infosys<br>Springboard                          | Decision Analyst                                   | Priyanka S                                                                                                                                             | Completed              |
| 13     | 2023-24       | Online Course                                       | Infosys<br>Springboard                          | The Strategy Analysis<br>Knowledge Area            | Priyanka S                                                                                                                                             | Completed              |
| 14     | 2023-24       | Online Course                                       | Infosys<br>Springboard                          | Full Stack Development:<br>Introduction            | Priyanka S                                                                                                                                             | Completed              |
| 15     | 2023-24       | Online Course                                       | Infosys<br>Springboard                          | Ruby Full Stack<br>Development: Introduction       | Priyanka S                                                                                                                                             | Completed              |
| 16     | 2023-24       | Online Course                                       | Infosys<br>Springboard                          | Business Analysis<br>Overview                      | Priyanka S                                                                                                                                             | Completed              |
| 17     | 2023-24       | Online Course                                       | Infosys<br>Springboard                          | System Analyst                                     | Priyanka S                                                                                                                                             | Completed              |
| 18     | 2023-24       | Cultural                                            | Kingston<br>Engineering<br>College              | POSTER MAKING<br>COMPETITION                       | Divya K                                                                                                                                                | Participated           |

