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GCEK, Bhawanipatna

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Asst. Prof., CSE Dept., GCEK Bhawanipatna

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Prof. A. Nanda Asst. Prof., CSE, GCEK

Government College of Engineering Kalahandi, Bhawanipatna



One Week Workshop On “Problem Solving using Data Structure for Enhancing Employability”



Organized By

Department of CSE
Government College of Engineering,
Kalahandi, Bhawanipatna

Venue

Seminar Hall
Government College of Engineering, Kalahandi,
Bhawanipatna

Inaugural Ceremony

Date-16 /11 /2023, Time-10:00 A.M

About the Institute

Government College of Engineering, Kalahandi (GCEK) was established in the year 2009 by an act of Govt. of Odisha and stands a humble spectacle where tradition meets modernization; aspiration meets inspiration, where our aim is to keep scaling new heights. Functioning as an affiliated college of Biju Patnaik University of Technology (BPUT), Rourkela, Odisha, the college offers 4 years Under Graduate B.Tech degree programmes in Civil Engineering, Computer Science & Engineering, Electrical Engineering and Mechanical Engineering. GCEK also offers Master's degree in Thermal Engineering and Power System Engineering. The institute has been successful in keeping itself up to the standards by surpassing the expectation in producing a brand of engineers capable of adapting all over the world. The exact location is besides the NH-201 (Bargarh-Boriguma), about 5 Km away from Bhawanipatna on the way to Junagarh.

About Computer Science and Engineering Department

The Department of Computer Science & Engineering was started from 2009 with the inception of institution, Government College of Engineering Kalahandi with an aim to produce high quality Computer Engineering graduates to serve in different organizations. The Department offers B.Tech degree in CSE with intake strength of 60. The faculty members of the department are well qualified having their highest degrees from reputed institutes likes IITs, NITs and IIITs. Department has well- equipped laboratories and state-of-art facilities for development of both students and faculties. The departmental vision is to accomplish excellence in Computer engineers through innovation and research to serve the Nation.

Course Details

The data structure is one of the powerful tools of problem-solving in algorithms. It helps us perform some of the critical operations efficiently and improves the time complexity of the solution.

Data Structures and Algorithms courses offered to equip learners with knowledge in common data structures that are used in various computational problems; typical use cases for certain data structures; principles and methods in the design and implementation of various data structures; and more.

Course Objective

1. To acquire problem solving skills using DS.
2. To acquire Employability Skills through DS .

Modules:

Day 1: Introduction

1. What is DS?
2. Why is DS?
3. Types of DS.
 - a. Array
 - i. Searching
4. Hands on array

Day 2: Linear data Structure

1. Sorting
 - a. Bubble sort
 - b. Selection sort
 - c. Insertion sort
2. Hands on sorting

Day 3: Linear Data structure

1. Stack
2. Hands on stack

Day 4: Queue

1. Introduction to queue
2. Types of queue
3. Linked list
4. Hands on queue

Day 5: Nonlinear Data Structure

1. Tree
2. Graph
3. Hands on tree

Registration fee

Student: Rs 100/-

Who can attend?

1. Undergraduate/post graduate students
2. Teachers
3. Research scholars.

Contact Details:

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