LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(Autonomous)

Accredicted by NAAC with 'A' Grade (GPA 3.20 out of 4), MHRD India Rankings NIRF-2022
(Rank-Band 251-300) Accredicted by NBA Under Tier-1 (CSE,IT,ECE,EEE & ME) Approved by
AICTE, New Delhi. and Affiliated by JNTUK, Kakinada. L.B.REDDY NAGAR, MYLAVARAM,
NTR Dist, Andhra Pradesh, Pincode: 521230.

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Advanced Data Structures using Python

in Association with

Association of Computer Geeks & iamneo

Date: (12th-17th september 2022)

Convenor

Dr.D.Veeraiah
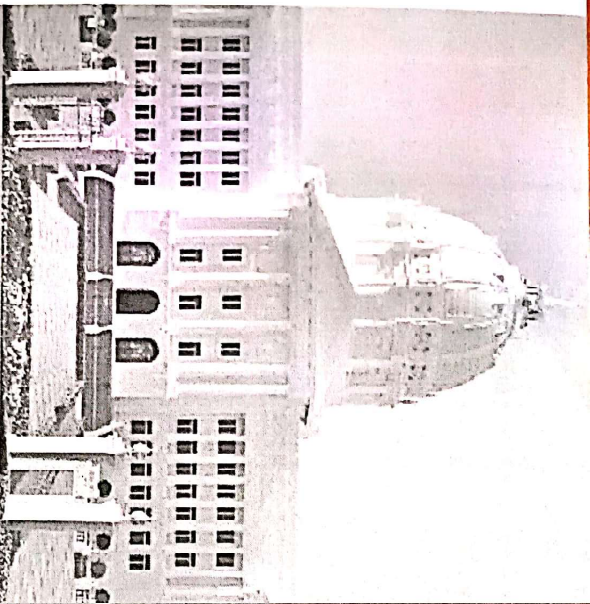Professor &HOD
Dept of CSE
LBRCE

Resource Persons

1) R.Sriram
(Program Manager)
2) S.Dharani Prakash
(Skill Development Engineer)

Coordinator

1) Dr.Y.Vijay Bhaskar Reddy
2) Mr. S. Govindu
3) Mr. N. Srinivasa Rao
4) Mr. S. Srinivasa Reddy

>To enrich the knowledge & skill set of students by providing the quality technical training.

>Boost their confidence levels to get placed in MNCs across the globe by value added training in the areas of Problem-Solving using Python Programming language.

>Data structures usage in the real-time application development with hands-on.

About the workshop

The workshop is completely industry oriented and interview oriented. Students will get the confidence that they can get through any difficult interview or any tough coding test. All the concepts will be taught with real time examples and in an easily understandable way.

So, every language has its own sets of Pros and Cons. Also, when it comes to the best language, you can choose one when you are equally good at all the languages. If not, then it's always better to go with the one that you think you are good at & sure about doing well. So, This workshop build confidence to the students along with the python insights.
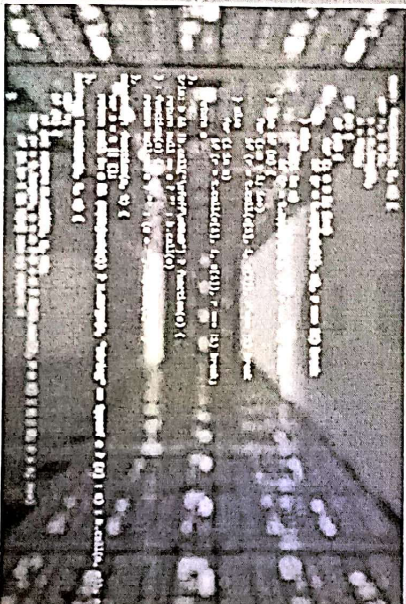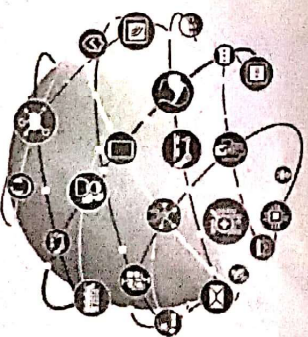

LBRCE was founded through Lakireddy Bali Reddy charitable trust in 1998 which stands for quality technical education which is exemplified by the continuous strides it has taken towards excellence in the last two decades. Started with an intake of 180 and now our intake is of 1152 Students it has got Autonomous Status in the Year 2010 from UGC which is extended for a period of 06 years in 2016.We were accredited with NAAC and NBA(CSE, IT, ECE, EEE & MECH) under Tier-I and 12(B) status apart from the recognition as a College with Potential for Excellence (CPE) from the UGC. We take pride to have large pool of well qualified and experienced faculty.This Colleges has also been awarded 2(f) and 12(B) status apart from the recognition as a College with Potential for Excellence (CPE) from the UGC. We take pride to have large pool of well-qualified and experienced faculty.

The Department of Computer Science and Engineering at LBRCE was established in 1998,which offers Undergraduate Program(B.Tech) in CSE and Postgraduate Program(M.Tech) in CSE. The B.Tech (Computer Science and Engineering) program was started with an intake of 40 students. The intake was subsequently increased to (60) in the year 1999, (90) in the year 2008, (120) in the year 2009, and (180) students in the year 2019.The M.Tech (Computer Science and Engineering) was started in the year 2008 with an intake of 18 students. Department was accredited by NBA in the year 2008 for the period of 3 years and in the year 2019 under Tier-I valid up to A.Y 2021-22. The department is also recognized as Research Centre by JNTUK Kakinada. At Present, Department consists of 36 Well Qualified Faculty with 10 Doctorates from reputed institutions like IIT, NIT, State Universities.

COMMITTEE MEMBERS

One week Workshop on Advanced Data Structure using Python
(12th & 17th September 2022)

Organised by

Department of Computer Science & Engineering

In association with

Association of Computer Geeks & iamneo

Chief Patrons:
1) Sri L.Jaya Prakash Reddy, Hon-Chairman
2) Sri L.R.N.K.Prasad Reddy, Chairman
3) Sri L.Vijay Kumar Reddy, Vice Chairman

Patrons:
1) Sri G.Srinivasa Reddy,President
2) Dr.K.Appa Rao,Principal
3) Dr.M.SrinivasaRao,Dean of Academics

Convener:
Dr.D.Veeraiah
Professor & HOD,CSE

Coordinators:
1) Dr.Y.VijayaBhaskar Reddy
Assoc.Professor
2) Mr. S. Govindu
Sr.Asst.Professor
3) Mr. N. Srinivasa Rao
Sr.Asst.Professor
4) Mr. S. Srinivasa Reddy
Sr.Asst.Professor

Resource Person:
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(Program Manager)
2) S.Dharani Prakash
(Skill Development Engineer)
3) Dr.Y.Vijaya Bhaskar Reddy
Assoc.Profesor
4) Mr. S. Govindu
Sr.Asst.Professor
5) Mr. N. Srinivasa Rao
Sr.Asst.Professor
6) Mr. S. Srinivasa Reddy
Sr.Asst.Professor

Eligibility
• All prefinal year students CSE

Contact deatails:
1) Dr.Y.Vijaya Bhaskar Reddy
(Assoc.Professor, CSE, LBRCE)
98482 49504.
2) Mr. S. Srinivasa Reddy
(Sr.Asst.Professor, CSE, LBRCE)
99856 17428.

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DEPARTMENT OF COMPUTER SCIENCE &ENGINEERING

Report on "Advanced Data Structure Using Python Workshop"

EventType   :   Workshop

Date   :   12th -17thSeptember2022

Venue   :   Sonet Hall, IT Workshop, ML Lab.

ResourcePerson(s)   :   Mr. Sri Ram (Program Manager),neoPAT.
Mr. S. DharaniPrakash (SkillDevelopment Engineer),neoPAT,

Nameof The Coordinators: Dr.Y. Vijay Bhaskar Reddy, Assoc Prof, Dept of CSE.
Mr.S. Govindu,Sr. Asst Professor, Dept. of CSE.
Mr.N. Srinivasa Rao,Sr. Asst Professor, Dept.of CSE.
Mr.S.Srinivasa Reddy,Sr. Asst Professor, Dept.of CSE.

TargetAudience   :   B. Tech.V SemStudents.

TotalnoofParticipants: 210

ObjectiveoftheEvent :

Themainobjectiveofthis Workshop is toenlightenthestudents about the aspects of data structures implementation using Python. How they need to put more effortsin learning of data structures implementation using python in the Industry point of view. They haveto implement data structures using python and also can understand how these are helpful in application development. Being a SoftwareEngineer, what are the different challenges that one can face and what are the different perks that one can get.

Outcome oftheEvent   :
Oncompletionofthis Workshop Studentcanbeableto:
- ➢ Implement Data Structures Using Python.
- ➢ Real World Application of Data Structures.
- ➢ How to solve different Data Structure problems, while facing a Technical Interview.
- ➢ Understand the Challenges of Developer/Software Engineer.

DescriptionoftheEvent:

Day 1: ResourcePerson R. Sriram startedthis workshop and explained neoPAT LMS login and implementation of different searching and sorting algorithms.
Day 2: Resource Person S. Dharani Prakash covered applications of Data Structures such as recursion and expression evaluation and their implementation using Python.
Day 3: Resource Person S. Dharani Prakash covered linked list implementation using python andtheir applications.
Day 4: Resource Person S. Dharani Prakash covered trees and graphs implementation using python and their applications.
Day 5: Resource Person S. Dharani Prakash covered the interview point of questions on back tracking, Dynamic programming and Brute Force Techniques and also shared his experience about different challenges he had faced and how are the different resources helped him to crack the Interview. He has presented valuable insights about Data Structures and real world applications of Data Structures.
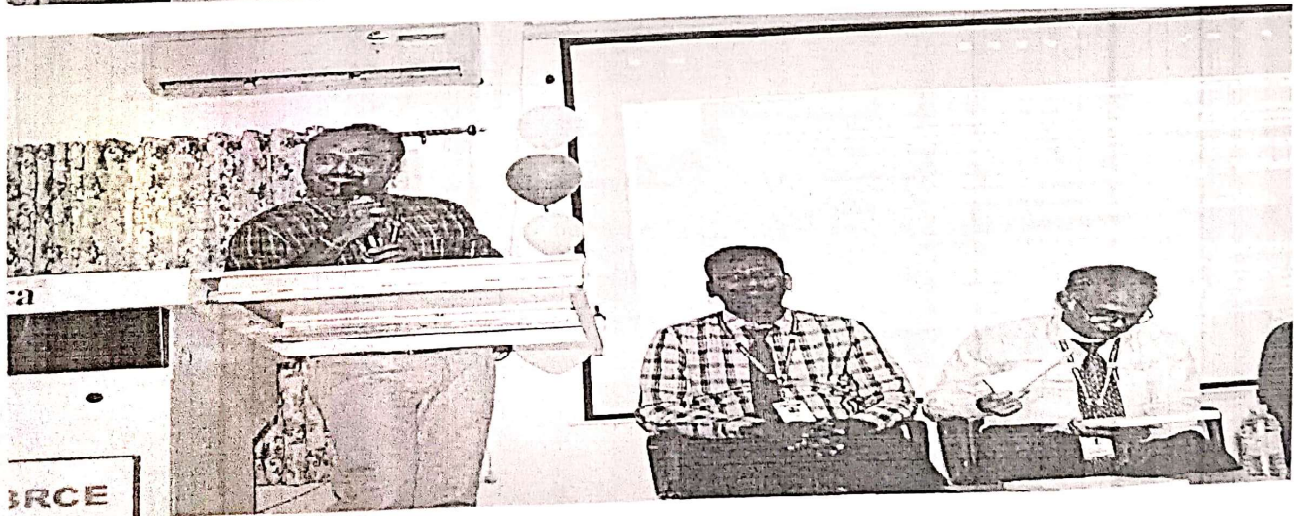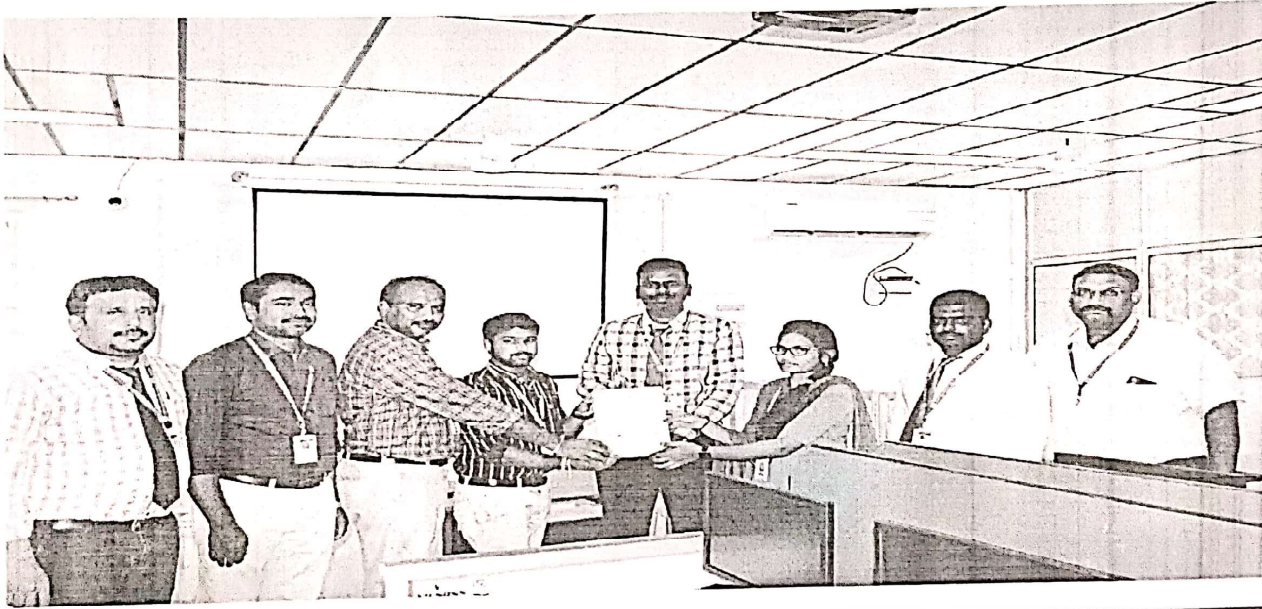
Impact Analysis:
- Students are motivated to learn Data Structures in an innovative way.
- Students came to know the responsibility of a Product based company and Service Based Company.
- Students came to know about various online resources for problem solving and how to crack a technical interview in Data Structures.

Feedback/Suggestions:
- Wethoroughlyenjoyedthe workshop.
- Byattendingthis Workshop, we came toknow the role of the product based Companies and Service based companies.
- Wegottoknowtthe differentchallengesone canfaceinIndustry.
- We got to know about www.leetcode.com for problem solving.

Screenshots of workshop:

Coordinators
Dr.Y. Vijay Bhaskar Reddy ,Mr.S. Govindu,
Mr.N. Srinivasa Rao,Mr.S.Srinivasa Reddy

Head of the Department

(Dr.D.Veeraiah)