PARVATHANENI BRAHMAYYA
SIDDHARTHA COLLEGE OF ARTS & SCIENCE
Siddhartha Nagar, VIJAYAWADA - 520 010, Andhra Pradesh
Autonomous, NAAC A+ Grade, ISO Certified Institution

2.3.1 Student centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experience.

SUPPORTING DOCUMENTS

(As reflected in the administrative and academic activities of the Institution)

INDEX

2.3.1 Student centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experience.

In fostering a dynamic and enriching educational environment, our institution P.B.siddhartha College of Arts and Science, integrates a variety of student-centric activities. Primarily the courses are designed with such provision in all the programmes to give students Experiential and Participative Learning Experience.

The following are the different Student centric methods that are followed at our institute.

1.Laboratory Practical Classes	12. International Conferences and Industry Conclave
2.Assignments/Quiz/Debate	13.Guest Lectures
3. ICT Tools	14.Career Counselling
4.Internships	15.Industrial Visits
5.Virtual Internships	16. Participation in Competitions
6.Projects	17.Innovations
7.MOOCs	18.Activities on Special Days
8.Certificate Courses	19.CRT Training
9.Seminars	20.Feedbacks
10.Workshops	21.Faculty Development Programs
11.Techno Cultural Meets	22.Annual Day and Cultural Day
12.Neighbourhood Activity	23. Library

1. Laboratory practical classes

Practicals are integrated into the curriculum to provide hands-on experience that deepens the theoretical knowledge gained in lectures. Faculty member demonstrates the practical and provides assistance to the students in executing them. Attendance is maintained by the concerned faculty. Observation notes and Practical records, prepared by the students are submitted at the time of practical exams.

Labs in our institute are spacious enough and fully equipped with required machinery and material, which helps the students to perform practicals without any inconvenience.

Labs:
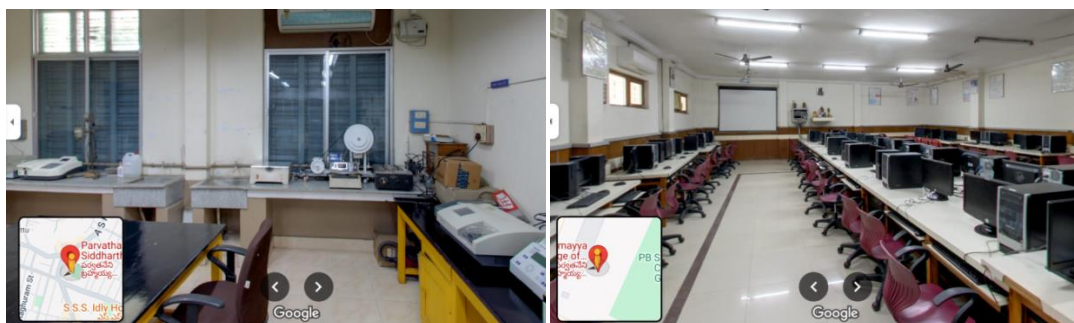
Sample lab Syllabus:

21DS4L1
P.B.SIDDHARTHA COLLEGE OF ARTS & SCIENCE (AUTONOMOUS),
VIJAYAWADA-520010
(An Autonomous College in the Jurisdiction of Krishna University, A.P., India.)
DATA VISUALIZATION LAB
SYLLABUS W.E.F 2021-2022

Course Category: Programme Core **Course Type:** Practical **Credits: 3 Semester:** IV
Prerequisites: Excel, Tableau **Lecture-Tutorial-Practice:** 0-0-6
Continuous Evaluation: 30 **Semester end Evaluation:** 70 **Total Marks:** 100

Course Objectives:
1. To implement *Tableau Installation*, *Introduction*, *Exploring*.
2. To implement *Data Blending*.
3. To implement *Uni-variate Charts***,** *Bi-variate Charts*, *Multi-variate Charts*.
4. To implement *Trend Line*, *Word cloud, Bubble Chart*.
5. To implement creating a Simple Dash Board, Creating Maps, Creating a Dash Board, Creating a Story and Data
Munging, Importing Graphs, Group and Aggregate Data, Create a Dash Board in Power BI.
Course Outcomes:
Upon successful completion of the course, the student will be able to:
CO1: Implement tableau *Installation*, *Introduction*, *Exploring*.
CO2: Implement *Data Blending.*
CO3: Implement *Uni-variate Charts, Bi-variate Charts, Multi-variate Charts.*
CO4: Implement *Trend Line*, *Word Cloud, Bubble Chart.*
CO5:To implement creating a *Simple Dash Board*, *Creating Maps*, *Creating a Dash Board*,
Creating a Story and Data Munging, Importing Graphs, Group and Aggregate Data, Create a *Dash Board* in *Power BI.*
Lab List:

1. Tableau installation. (CO1,L1)
2. Tableau Introduction / Exploring Tableau. (CO1,L1)
3. Data Blending. (CO2,L3)
4. Creating Univariate charts
a.Bar Chart. (CO3,L3)
b.Pie Chart. (CO3,L3)
c. Line Charts
d. Box plots
5. Dual Axis Chart. (CO3,L3)
6. Shared Axis. (CO3,L3)
7. Creating Bivariate Charts
a. Cross Tab. (CO3,L3)
b. Scatter Plot. (CO3,L3)
c. Trend Line. (CO3,L3)
8. Creating Multi-variate Charts
a. Dual Axis Chart. (CO3,L3)
b. Area charts(CO3,L3)
9. Word Cloud. (CO4,L3)
10. Bubble Chart. (CO4,L3)11. Creating a Simple Dash Board. (CO5,L3)
12. Creating Maps. (CO5, L3)
13. Creating a Dash Board. (CO5, L3)
14. Creating a Story. (CO5, L3)
Power BI:

2. Assignments/Quiz/Debates

To bridge the gap between the student's study at college and home assignments are given to the students. It helps in understanding a topic which makes it easy to prepare for the future final examination. Nevertheless, assignment learning helps the student to develop essential skills such as analytical skills, time management skills, writing skills and research skills. Apart from Assignments activites like quiz and debates are conducted during the regular hours for which students gain interal marks.

Assignments are also given marks which are added to the internal marks. Assignments like

- Home Assignments
- Literature review
- Case Studies
- Summary of book chapters
- Scrap Books
- Learning Dairies

Sample proofs of list of assignments given :

Department of Computer Science :: P.B.Siddhartha College of Arts & Science							
List of Assignments							
Program	Academic Year	Sem ester	Course	Course Code	Name of the Faculty	Signature of Faculty	Signature of HoD
MCA	2022-2023	III	Cryptography and Network Security	20CA3T5	R Jayamma		

S.No.	Reg. No	Assignment Topic	Signature of Student
1	21MCA01	Computer Security Concepts	
2	21MCA03	Security Attacks	
3	21MCA04	Security Services	
4	21MCA05	A Model for Network Security.	
5	21MCA06	Symmetric Cipher Model	
6	21MCA07	Substitution Techniques	
7	21MCA08	AES	
8	21MCA09	Divisibility and the Division Algorithm,	
9	21MCA10	The Euclidean Algorithm	
10	21MCA11	Fermat's and Euler's Theorems	
11	21MCA12	The Chinese Remainder Theorem	
12	21MCA13	Principles of Public Key Crypto Systems	
13	21MCA14	The RSA Algorithm with two examples	
14	21MCA15	Key Management	
15	21MCA16	Elliptic Curve Cryptography	
16	21MCA17	Message Authentication Codes	
17	21MCA18	HMAC	
18	21MCA19	Digital Signatures	
19	21MCA20	Symmetric Key Distribution Using Asymmetric Encryption	
20	21MCA21	Distribution of Public Keys	

P.B.Siddhartha College of Arts & Science:: Department of Computer Science							
			List of Assignments				
Program	Academic Year	Semester	Course	Course Code	Name of the Faculty	Signature of Faculty	Signature of HoD
M.Sc.(Mathemtics)	2021-2022	III	Problem Solving using Python Programming	20OE07	Dr.T.S.Ravi kiran		

S.No.	Reg. No	Assignment Topic	Signature of Student
1	20401	1. Write a program to read and print values of variables of different data types. 2. Write a program to calculate the distance between two points.	
2	20402	1. Write a program to perform addition, subtraction, multiplication, division, integer division 2. Write a program to calculate tax given the following conditions: If income is less than 1,50, 000 then no tax If taxable income is Rs.1,50,001 - Rs.300,000 then charge 10% tax If taxable income is Rs.3,00,001 - Rs.500,000 then charge 20% tax If taxable income is above Rs.5,00,001 then charge 30% tax	B.Jashmitha
3	20403	1. Write a program to calculate roots of quadratic equation 2. Write a program to enter the marks of a student in four subjects. Then calculate the total and aggregate, and display the grade obtained by the student. If the student scores an aggregate garter than 75%, then the grade is Distinction. If aggregate is 60>= and = and = and	B.Santi pajiv
4	20404	1. Write a program to read the numbers until -1 is encountered. Find the average of positive numbers and negative numbers entered by the user 2. Write a program to find whether the given number is an Amstrong number or not	ludS Rami
5	20405	1. Write a program to print the reverse number. 2. Write a program to calculate GCD of two numbers.	G.Verravi
6	20406	Write a program (a) To calculate the factorial of number (b) To calculate GCD using the recursive functions. recursively.	D.Bhanu Mounika
7	20407	Program make a simple calculator	D.Nandini
8	20408	1. Write a program that defines a function large in a module which will be used to find large of two values and called from a code in another module. 2. Write a program that demonstrate the use of method __init__	D.Pavax
9	20409	1. Write a program to demonstrate the use of inheritance. 2. Write a Program to demonstrate Polymorphism.	D.Tejaswi
10	20410	1. Demonstrate Polymorphism using Function Overloading. 2. Write Program to demonstarate Method overriding with arguments.	G.Vont
11	20411	1. Write program to depict multiple inheritance. 2. Write a python program to demonstrate multilevel inheritance.	G.Y.S.Raman
12	20412	1. Program to demonstrate multipath inheritance (or) hybrid inheritance.	K.Deerajalah

3. ICT Tools:

ICT (Information and Communication Technology) tools are essential in education as they enhance teaching and learning through interactive, multimedia content and accessible resources. They support personalized learning, foster collaboration, and prepare students for a tech-driven world, making education more engaging and effective.
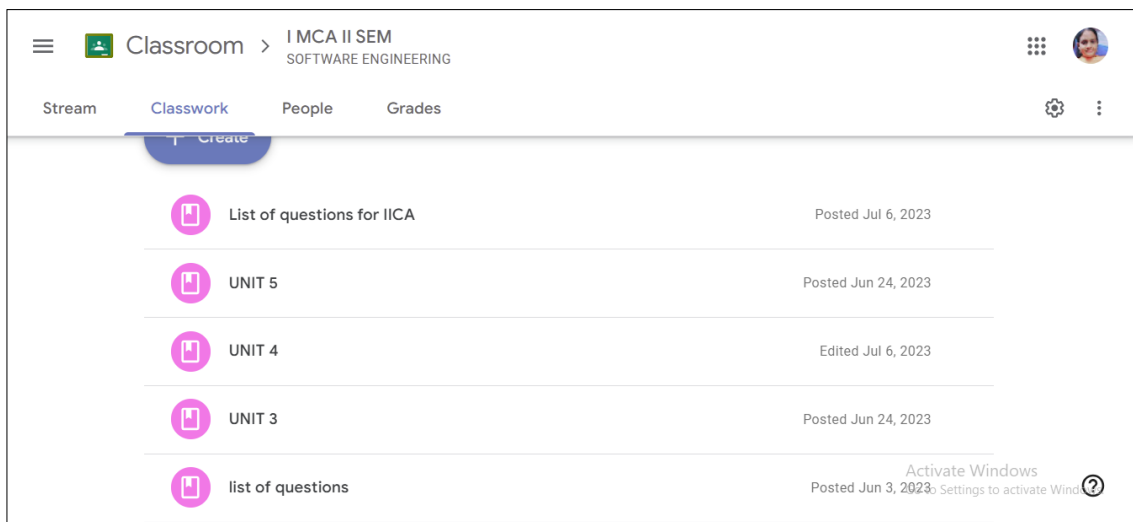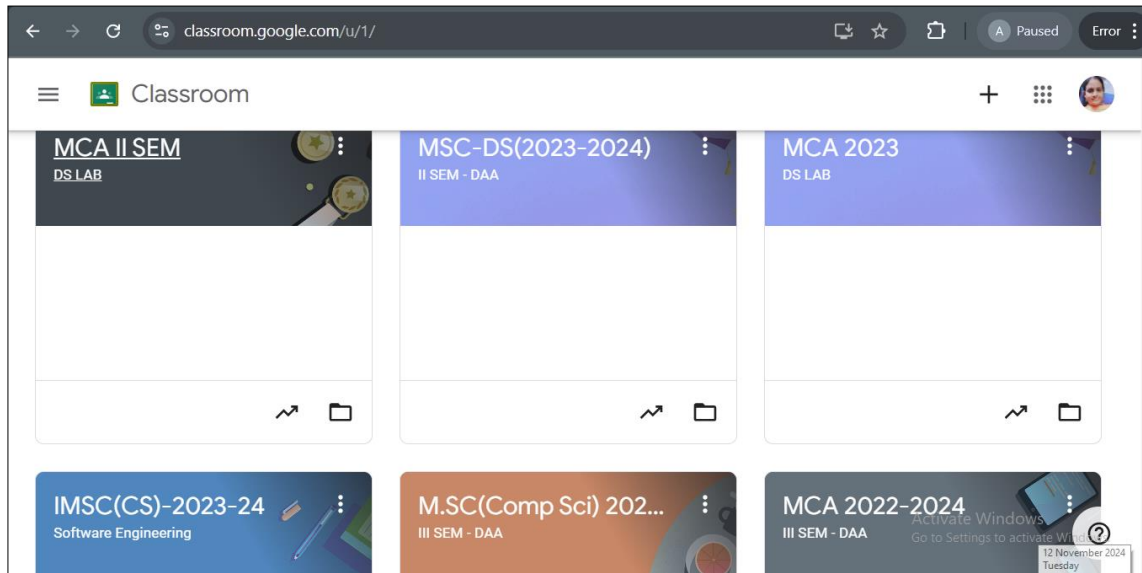
At our institution we use ICT tools like:
Online Classesusing video conferencing platforms or virtual meeting tools
- LMS like Google Classroom
- PPTs
- Recorded Video Classes
- Digital Boards
- Projectors

Proofs of Video lectures:

Proofs of Google Classroom

4. Internships:

Internships are essential in education as they bridge the gap between theoretical knowledge and real-world application. Through internships, students gain hands-on experience, allowing them to apply what they've learned in class to practical, work-related tasks. This exposure not only helps them develop technical skills relevant to their field but also fosters important soft skills, such as communication, teamwork, and time management.

Internships for Undergraduates: The curriculum is designed inclusive of Internships. The students can do the internship within the college or outside the college with any organization recognized by APSCHE.

Three internships are mandatory for all students of Undergraduates**.** They are

- **First internship (after 1st year examinations) Community Service:** To inculcate social responsibility and compassionate commitment among the students, the summer vacation in the intervening 1st and 2nd years of study shall be for Community Service Project
- **Second Internship (April-May after 2nd year examinations): In-house Project** To make the students employable, In-house Project are undertaken by the students in the intervening summer vacation between the 2nd and 3rd years.
- **Third internship (6thSemester period):** During the entire 6th Semester, the student shall undergo Apprenticeship / Internship / On the Job Training. This is to ensure that the students develop hands on technical skills which will be of great help in facing the world of work.

Internships for Postgraduates: All PG students must undertake Summer Internships/Research based project work for six weeks and must prepare a report based on the approved guidelines and submit to the department**.**Internship reports are evaluated by the in-charge faculty member.

Sample Internship Certificates:

Vision Computers
"Software Training & Project Hub"

CERTIFICATE

This is to certify that **Miss. DIVI LIKITHA SRI doing MCA** from **PARVATHANENI BRAHMAYYA SIDDHARTHA COLLEGE OF ARTS AND SCIENCE** with Regd.No: **21MCA01** has successfully completed the project titled **"HEART DISEASE PREDICTION USING ML"** from **10th April 2023 to 19th July 2023 using MACHINE LEARNING** Technologies.

The project was completed to our satisfaction and **she** showed keen Interest and was dedicated to the project during above period. We place our Appreciation for **her** best efforts.

For Vision Computers

(Authorized Signatory)

---

vXL   **VXL IT SOLUTIONS**
                                           Internship-Projects

Date: 20/07/2023

PROJECT COMPLETION CERTIFICATE

This is to certify that **KATTEDA KORESH BABU (21MCA65)**, MCA(Master of Computer Applications) student of **P.B.SIDDHARTHA COLLEGE OF ARTS & SCIENCE**, have successfully completed his project work title coined **"Survival Analysis and Churn Prediction Using Machine Learning"** as part of his course curriculum.

He accomplished his project using Python with Machine Learning Technologies during the period **April 2023- July 2023** under our esteemed guidance.

As far as our knowledge is concerned his skills and involement is found Good.

Authorized Signatory

Project Guide

5. Online Internships:

Online internships provide valuable, flexible work experience, allowing students and professionals to gain practical skills remotely. This experience enhances employability by building relevant skills and demonstrating adaptability in a digital workspace.

Students of our college are encouraged to do online internships so that they can expand their knowledge in the domain of his/her interest.

Virtual Internship
Completion Certificate

This is to certify that

maadu nandini

Parvathaneni Brahmayya Siddhartha College of Arts & Science

has successfully completed 10 weeks

Cybersecurity Virtual Internship

during December 2022 - February 2023

Supported By

Saravanan Rajagopal
Training Partner Manager, APAC
Palo Alto Networks

Shri Buddha Chandrasekhar
Chief Coordinating Officer (CCO)
NEAT Cell, AICTE

Dr. Satya Ranjan Biswal
Chief Technology Officer (CTO)
EduSkills

Certificate ID : axalina2078004d10bc6a01c5d6ccb4
Student ID : STU5363dd5fd16461667463999

6. **Projects:**

Projects help bridge the gap between theoretical learning and practical experience, creating a more comprehensive and rewarding educational experience. Working on projects builds essential skills such as problem-solving, critical thinking, collaboration, and time management. These are valuable for personal growth and professional success.

The programmes at P.B.Siddhartha College of Arts and Science for both undergraduates and postgraduates are designed with projects in the last semester as per APSCHE and Krishna University respectively.

Some sample project certificates of the students:

LTE TECH SOFT
LEARN TO EARN

Date: 02/AUG/2023

TO WHOM IT MAY CONCERN

This is to certify that Mr. **Atukuri Prasanna Kumar** doing MCA from **PARVATHANENI BHRAHMAYYA SIDDHARTHA COLLEGE OF ARTS AND SCIENCE with Regd.No: 21MCA51** has Successfully completed the project titled "**E-Commerce Customer Segmentation**' from **10th April 2023 to 19th July 2023** using **Machine learning Technologies.**

The Project was Completed on our Satisfaction and **he** showed keen interest and was dedicated to the project during about the period. We place our appreciation for **him** best efforts

Dilip Kumar V,
Technical Trainer,
LTE TECHSOFT

Head Office : 4th Floor, Croma Building, Near Errum Manzil Metro Station,Punjagutta, Hyderabad - 500082,
Ph: 7416655880 | Email: info@ltetechsoft.com

7. MOOCS:

MOOCs (Massive Open Online Courses) provide accessible, flexible learning opportunities for students worldwide, promoting self-paced and diverse subject exploration. They help bridge educational gaps by offering free or affordable courses from top institutions. This fosters continuous learning, skill development, and career advancement.

The PG Curriculums are designed inclusive of MOOCS where every student is supposed to complete at least two courses from **SWAYAM/NPTEL** platform.

Some sample certificate courses done by the students:

Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

SRIMATHTIRUMALA SAI CHANDANA

for successfully completing the course

Privacy and Security in Online Social Media

with a consolidated score of **62** %

Online Assignments	16.29/25	Proctored Exam	45.25/75

Total number of candidates certified in this course: **5647**

Prof. Kishore Kothapalli
Professor and Dean (Academics)
IIT Hyderabad

Jul-Oct 2023
(12 week course)

Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras

International Institute of Information Technology, Hyderabad

FREE ONLINE EDUCATION
swayam

Roll No: NPTEL23CS69S44983118   To verify the certificate   No. of credits recommended: 3 or 4

Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

VADREVU SAI AKHIL

for successfully completing the course

Privacy and Security in Online Social Media

with a consolidated score of **62** %

Online Assignments	16.18/25	Proctored Exam	45.5/75

Total number of candidates certified in this course: **5647**

Prof. Kishore Kothapalli
Professor and Dean (Academics)
IIT Hyderabad

Jul-Oct 2023
(12 week course)

Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras

International Institute of Information Technology, Hyderabad

FREE ONLINE EDUCATION
swayam

Roll No: NPTEL23CS69S44983309   To verify the certificate   No. of credits recommended: 3 or 4

8. Certificate courses:

Online certificate courses offer a convenient way to gain specialized knowledge and practical skills, enhancing one's skill set and employability. They allow learners to stay current with industry trends and emerging technologies without the need for full-time programs. Recognized by many employers, these certificates add value to resumes and demonstrate a commitment to professional growth.

So, here in P.B.Siddhartha we encourage students to do relevant certificate courses on Platforms like Great Leraning, Simplilearn etc.

Some sample certificate courses done by the students.

Statement of Achievement

Dhanalakshmi Molabanti

has successfully achieved student level credential for completing the Python Essentials 1 course, provided by Cisco Networking Academy in collaboration with OpenEDG Python Institute.

The graduate is able to proficiently:

- Design, develop, debug, execute, and refactor simple computer programs written in Python 3.
- Think algorithmically to analyze problems and implement them as computer processes.
- Use the syntax, semantics, and the most important elements of the Python Standard Library to write Python scripts and resolve typical implementation challenges.
- Understand the role of a programmer in the software development process.
- Attempt the qualification PCEP – Certified Entry-Level Python Programmer from OpenEDG Python Institute and continue their professional development at an intermediate level with Python Essentials 2.

Laura Quintana
Vice President and General Manager
Cisco Networking Academy

February 15, 2023

CERTIFICATE OF COMPLETION

Presented to

Lankalapalli Sahithisushma

For successfully completing a free online course

Personality Development Course

Provided by
Great Learning Academy
(On March 2023)

9. Seminars

Seminars play a key role in education by promoting interactive learning, where students can engage deeply with topics, ask questions, and participate in discussions. They encourage critical thinking, collaboration, and public speaking, enhancing students' understanding and

confidence. Seminars also provide opportunities to learn from experts, gaining insights beyond standard curriculum materials.

P.B.Siddhartha college of Arts and Sciences encourages all the departments to conduct seminars to enforce experiential learning.

Sample proofs of seminars:

P.B.Siddhartha College of Arts & Science :: Department of Computer Science
22ndFebruary 2022, 11 A.M to 1 P.M
Seminar on "Launch your Career"

Objective: To explain latest technologies in Industry.

The Department of Computer Science, P.B.Siddhartha College of Arts & Science had organized a Seminar on **"How to Lead Edutech Organization"** on **22ndFebruary 2022, 11 A.M to 1 P.M** for Post Graduate. Mr.Rakesh, Tech Lead, Bit Labs,Vijayawada was the resource person.

He explained

- The latest technologies which a student has to learn to be industry ready.
- The importance of Full Stack in present Industry.
- The need of certifications and Internship along with curriculum.
- Focus of the students towards job after the beginning of the course.

Number of Students Attended: 43

Outcome of Seminar:

- Students are able to gain awareness latest technologies which a student has to learn to be industry ready.

Resource Person: Mr.Rakesh,Tech Lead,Bit Labs.,Vijayawada **Mobile:** 9182616657 **Email:** rakesh@bitlabs.com
Event Coordinators: 1. Mr.G.Samarta Krishna, Assistant Professor, Department of Computer Science. 2. Dr.T.S.Ravi Kiran, HOD, Dept of Computer Science
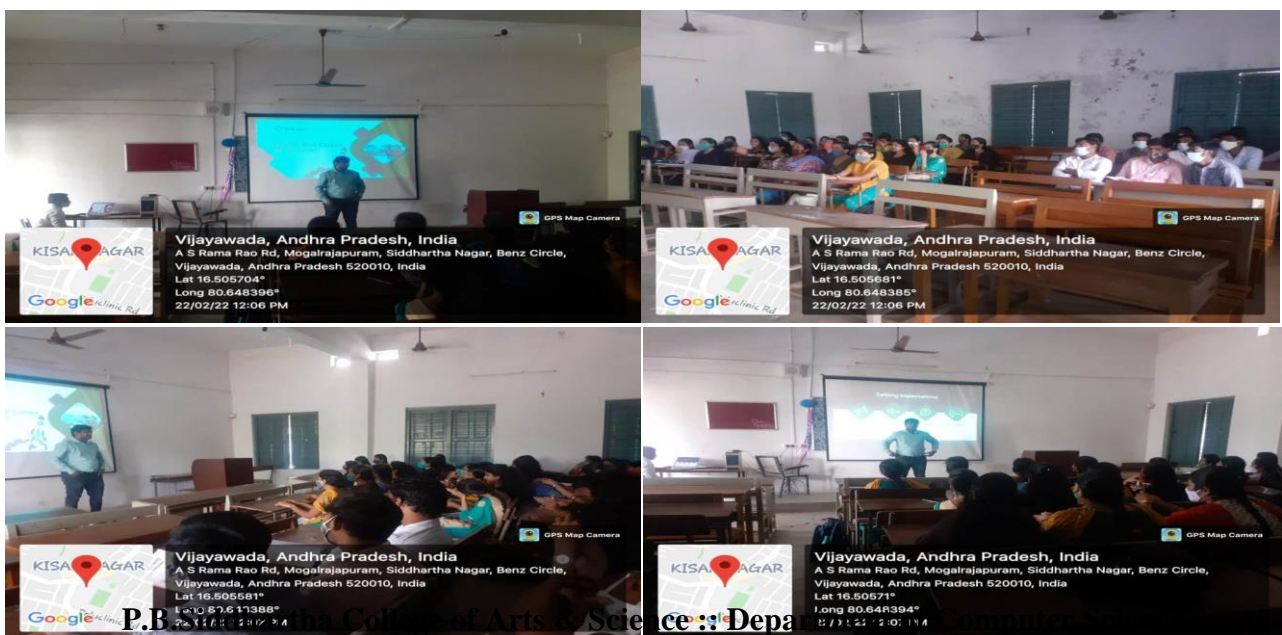
31st March 2022, 02.00 P.M to 3.30 P.M
Seminar on "Deep Learning and its Applications"
Objective: To explain Deep Learning and its Applications.

The Department of Computer Science, P.B.Siddhartha College of Arts & Science had organized a Seminar on **"Deep Learning and its Applications"** on **31st March 2022, 02.00 P.M to 3.30 P.M** for Post Graduate. Mr.Priyatham Bollimpalli, Data & Applied Scientist II, Microsoft, USA was the resource person.

He explained
- The brief introduction about Machine Learning, AI and Deep Learning.
- The importance of Neural Networks.
- The uses of Neural Networks and Deep Learning and their working models.
- Different applications of Deep Learning.

Number of Post Graduate Students Attended: 150

Outcome of Seminar:
- Students are able to gain awareness latest technologies which a student has to learn to be industry ready.

Resource Person: Mr.Priyatham Bollimpalli, Data & Applied Scientist II, Microsoft, USA Mobile: +16509952737 Email: bpriyatham2010@gmail.com
Event Coordinators: 1. Dr.T.S.Ravi Kiran, HOD, Dept of Computer Science 2. Mr.G.Samarta Krishna, Assistant Professor, Department of Computer Science 3. Mr.S.Tulasi Prasad, Assistant Professor, Department of Computer Science
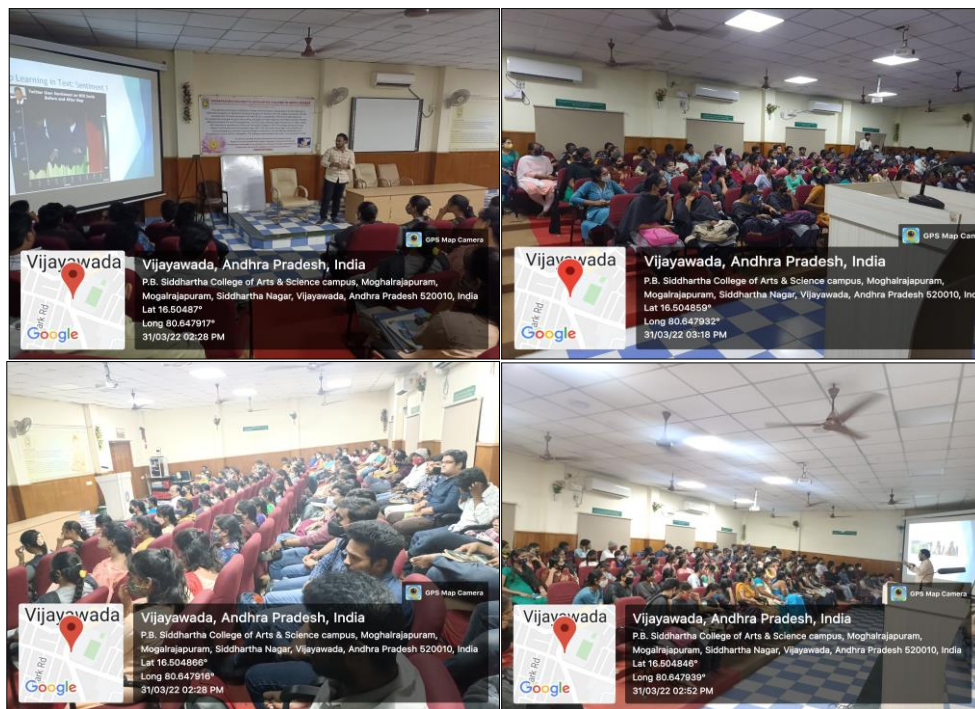
10. Workshops

Workshops in education are essential for hands-on learning, allowing students to apply theoretical knowledge in practical settings. They foster active participation, skill-building, and problem-solving, helping students retain concepts better. Workshops also encourage collaboration and creativity, preparing students for real-world challenges through experiential learning.

P.B.Siddhartha college of Arts and Sciences encourages all the departments to conduct Workshops to enforce Experiential and Participative Learning Experience.

Sample Proofs for Workshops:

P.B.Siddhartha College of Arts & Science::Department of Computer Science
14st to 22rd March 2022 (Eight Days)
Hands on Workshop on Deep Leaning using Python

The Department of Computer Science, P.B.Siddhartha College of Arts & Science had organized a "Hands on Workshop on Deep Leaning using Python" for Faculty and Under Graduate Students from 14th to 22rd March 2022, 2 P.M to 3 P.M in collaboration with Codegnan IT Solutions Pvt. Ltd., Vijayawada.

Mr. K.Saketh Reddy, COO, Codegnan IT Solutions Pvt. Ltd., Vijayawada was the resource person. He explained *Introduction to Deep Leaning*, *Introduction to Artificial Neural Networks*, *Building ANN from Scratch*, *Building ANN with one Hidden Layer*, *Understanding different Deep Learning Frame Works*, *Implementing Linear Regression Model with Tensor Flow*, *Raw Implementation of Simple Neural Network to classify MNIST Digits Dataset*, *Building Deep Neural Network in Keras* and *Introduction to Convolution Neural Networks*.

Number of Participants: 50 (4 Faculty Members + 46 Students)

Outcome of Workshop:
- Participants gained knowledge on *Deep Learning Frame Work.*
- Participants implemented a *Linear Regression Model with Tensor Flow*.
- Participants able to build *First Convolution Neural Networks.*

Resource Person: Mr. K.Saketh Reddy, Chief Operating Officer, Codegnan IT Solutions Pvt. Ltd., Vijayawada.

Mobile: 8106429771 Email: saketh@codegnan.com

Event Coordinator: M.Suneela, Assistant Professor, Department of Computer Science
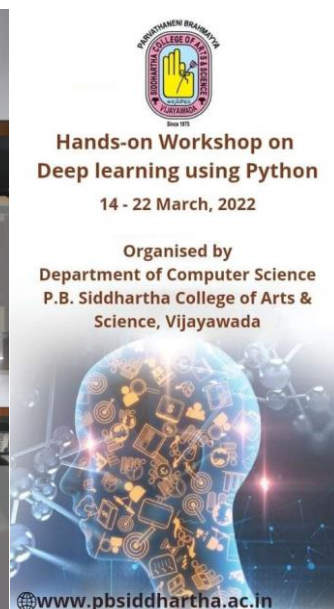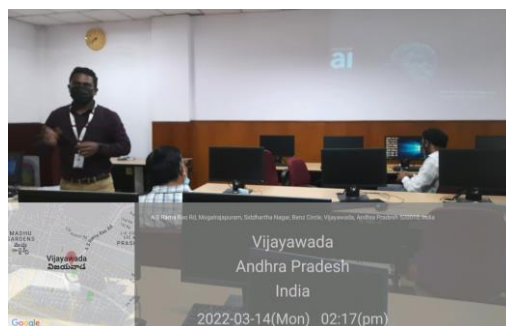
11. Techno-Cultural Meets

A Techno-Cultural Meet in education enriches learning by merging technology and culture, fostering both technical skills and cultural appreciation among students. It provides a platform for showcasing innovation, creativity, and teamwork through events like hackathons, cultural performances, and workshops. Such meets encourage holistic development, bridging academic knowledge with practical applications and cultural insights.

P.B.Siddhartha college of Arts and Sciences encourages all the departments to conduct Techno-Cultural Meets to give the students Experiential and Participative Learning Experience.

 Sample Proofs ofTechno-Cultural Meets:

P.B.Siddhrartha College of Arts & Science :: Department of Computer Science
Report on Vibhaava
A State Level Techno-Cultural Meet, 25th March 2022

The Department of Computer Science is organizing One Day State Level Techno-Cultural Post Graduate student meet "Vibhaava-2022" on 25th March 2022. 107 Post Graduate students from various colleges (KBN, ANU, RVR&JC,MIC,VR Siddhartha, JKC) actively participated and exhibit their talents in various technical and non- technical events viz Technical Quiz, Paper Presentation, Project Expo, Coding & Decoding , e-Waste Management, Mr. & Ms. Vibhaava, Videography and Group Dance.

Total Number of Participants: 341
Chief Guest: T.Vijay John CEO, Kastech Software Solutions Pvt. Ltd, Hyderabad.
Mobile: 9440159995   **Email:** tjvijay@gmail.com
Outcome: Students across the state actively participated and shared their innovations and knowledge and exhibited their talents in various technical and non- technical events.

12. Neighbourhood Activity

Neighbourhood activities in education encourage students to engage with and contribute to their communities, fostering social responsibility and empathy. These activities provide real-world learning experiences, helping students understand local issues, collaborate with diverse groups, and apply classroom knowledge to make a positive impact. Such involvement also strengthens civic awareness, building well-rounded, community-minded individuals.

P.B.Siddhartha college of Arts and Sciences encourages all the departments to conduct Neighbourhood activities so as to inculcate among the students the sense of responsibility towards the society.

Sample Proofs of Neighbourhood activity

P.B.Siddhartha College of Arts & Science
Department of Computer Science (PG)
25th March 2022, 4.42 PM
Neighbourhood Activity, Donated Food for Vasavya Mahila Mandali, Vijayawada

- MCA, M.Sc.(Computer Science) and M.Sc.(Data Science) students (2021-2022) bath donated food to the children of Vasavya Mahila Mandali, Vijayawada on 25th March 2022

13. International conferences and industry conclaves

International conferences and industry conclaves expose students to global trends, advanced research, and industry insights, enriching their learning experience. They foster networking, collaboration, and inspire students to pursue innovative ideas for career growth.

At our Institute the departments conducts International conferences and industry conclaves to expose students to global trends, advanced research, and industry insights, enriching their learning experience.

<div align="center">

P.B.Siddhartha College of Arts & Science
Department of Computer Science

</div>

The Department of Compute Science has conducted **International Conference on Recent Innovations in Computer Science & Technology** (ICRICT 2019) on 25th Jan 2019.

For this conference **Journal of Emerging Technologies and Innovative Research (JETIR)**, An International Open Access Journal and UGC and ISSN Approved, www.jetir.org, ISSN: 2349-5162 was our journal partner. 30 research papers are accepted and published during this conference.

Coordinator: Dr.T.S.Ravi kiran, HoD, Dept of Computer Science
E-Mail: kirantsr1@gmail.com,pbscpg@rediffmail.com   Mobile: 9441176980, 9052550573

14. Guest Lectures:

Guest lectures in education bring expert insights and real-world perspectives, enhancing students' understanding beyond textbooks. They provide networking opportunities and inspire students by connecting academic concepts with industry practices and success stories

Departments at our Institute conducts guest lectures by eminent people toinspire students by connecting academic concepts with industry practices and success stories.

Sample Proofs of Guest Lectures:

P.B.Siddhrartha College of Arts & Science :: Department of Computer Science
Guest Lecture on "Significance of Projects and Internships"
11th April 2022

Objective: To provide awareness on Projects and Internships.
The Department of Computer Science organized a Guest Lecture on "Significance of Projects and Internships" on 11th April 2022.Apart from learning the basics of their stream, Projects and Internships are one of the most important things in Computer Science that needs to be done seriously. Keeping this in view the guest lecture was organized.
Mrs.P.Lakshmi, Managing Director, Vision Computers, Vijayawada acted as resource person. She shed light on projects available in various areas of study like *Health Care*, *Natural LanguageProcessing* and *Commercial Areas*, where students can develop and design solutions using Machine Learning. She discussed how to gain relevant learning experience and apply knowledge to new situations and get themselves updated in current technologies to be successful in their career. 66 students from M.C.A and M.Sc.(Computer Science) Fourth Semester Students had attended the guest lecture.
**Outcome:** Gained awareness on significance of Projects and Internships in the current scenario.
Resource Person: Mrs.P.Lakshmi, Managing Director, Vision Computers, Vijayawada.
Mobile: 8008169169   Email: visioncomputers.vjw2019@gmail.com

Event Organizers: 1. A.Kavitha, Assistant Professor, Dept of Computer Science
                              2. K.Priya, Assistant Professor, Dept of Computer Science

3. Dr.T.S.Ravi Kiran, HOD,Dep
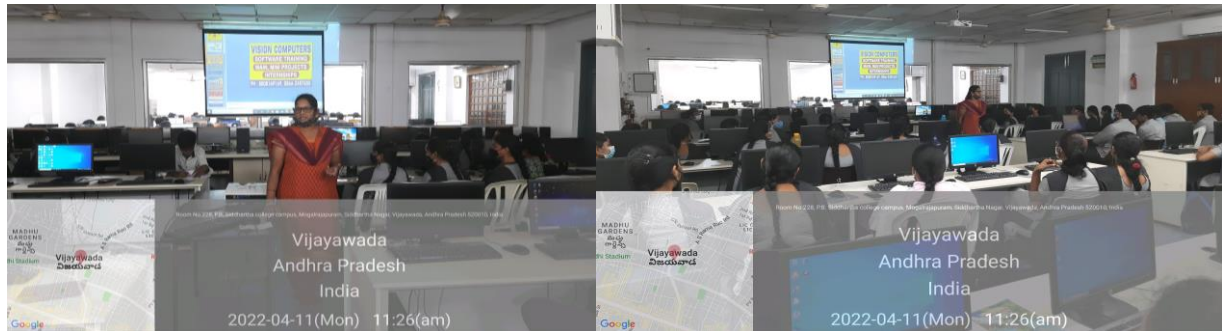
P.B.Siddhartha College of Arts & Science :: Department of Computer Science
13thMay 2022
Guest Lecture on Cyber Forensics and Dispute Resolution

The Department of Computer Science, P.B.Siddhartha College of Arts & Science had organized a "Guest Lecture on **Cyber Forensics and Dispute Resolution**" on the eve of Induction Program for M.Sc.(Computer Science) and M.Sc.(Computational Data Science) on 13th May 2022.

Mr. D.Nirnal Kumar, Manager Forensic and Dispute Resolution, Delloite, Hyderabad was the resource person. He explained *the need for Security steps to be taken while using Internet Banking. The ways in which the fraudsters are using to access and transfer the money illegally from our account. Types of attacks that can be launched remotely. Resolution of Disputes if money has be transferred without our knowledge. How to launch a complaint with RBI is case of fraud. Fraud detection and avoidance. He also explained about the disadvantages of remote access tools and spam mails and their detection.*

Number of Participants: 115 (5 Faculty Members + 110 Students)

Outcome of Workshop:
- Participants gained knowledge on *Frauds in Banking*
- Participants understood the ways hackers are launching attacks.
- Participants gained awareness on not sharing the Bank and Personal details to unknown persons.

Resource Person:
Mr. D.Nirnal Kumar, Manager Forensic and Dispute Resolution,
Delloite, Hyderabad
Mobile: 9347552233
Email: nirmal.dandabathula@gmail.com

Event Coordinators: Dr.T.S.Ravi Kiran, HoD, Department of Computer Science
Mr.G.Samrat Krishna, Assistant Professor
Mr.S.Tulasi Prasad, Assistant Professor

Press Clipping in Eenadu on 14th May 2022

15. Career Counseling:

Career counseling is crucial for helping students identify their interests, strengths, and career options, guiding them toward informed decisions about their future. It provides valuable resources, skill assessments, and insights into job markets, enabling individuals to set realistic goals and develop effective strategies for career development.

The Departments at our Institute organizes career counseling to help the students in identifying the line of interest.

Sample Proofs of Guest Lectures:

P.B.Siddhrartha College of Arts & Science :: Department of Computer Science
Expert Career Talk on "Careers in Cloud Computing with AWS"
29th March 2022, Tuesday

The Department of Computer Science, P.B.Siddhartha College of Arts & Science had organized a expert career talk on "**Careers in Cloud Computing with AWS**" for both Under Graduate and Post Graduate Students on 29th March 2022 in association with Rotary Club, Vijayawada East.

Rtn. V.Kiran Babu, MD, SRK Software Consultancy, Vishakapatnam was the resource person. He explained career growth in *Cloud Development and Deployment*, *Cloud and AWS Fault Tolerant Infra Structure*, *Work Flow Design and User Interactions in a Collaborative Environment*.

Number of Participants: 90 (4 Faculty Members + 86 Students)

Outcome of Career Talk:
- Participants able to know various opportunities in Cloud.
- Participants gained knowledge on technical skills needed in Cloud Computing with AWS.

Resource Person:
Rtn. V.Kiran Babu, MD, SRK Software Consultancy,
Vishakapatnam
Mobile: 9849118191
Email: sreekiranbabu@gmail.com

Event Coordinator: Kavuri Sridhar, Deputy HOD (UG), Department of Computer Science

Press Clipping, Eenadu, 30th March

16. Industrial Visits:

Industrial visits in education offer students firsthand experience of real-world work environments, bridging the gap between theory and practice. They provide insights into industry operations, enhance understanding of career paths, and foster professional networking, preparing students for future employment.

The Departments at our Institute take students to industries to give them the real-time experience of the working environment.

Sample Proofs of Industrial Visits:

P.B.Siddhrartha College of Arts &Science
Department of Computer Science
Industrial Visit to TCS, Hyderabad on 27th February 2023

On February 27, 2023, we, the students of ParvathaneniBrahmayya Siddhartha College of Arts & Science, Vijayawada pursuing III B.Sc.(Computer Science with Cognitive Systems) had an opportunity to visit Tata Consultancy Services (TCS) Synergy Park in Hyderabad. TCS is one of the leading global IT services, consulting, and business solutions organizations and we were excited to visit their facility to learn more about their operations
- Number of students attended: 43
- Number of faculty attended: 2

Purpose of Visit

The purpose of our visit was to gain practical knowledge about the functioning of an IT company and how various departments such as software development, project management, quality assurance, and testing work together to deliver IT solutions to clients. We were also interested in learning about the latest technologies and trends in the IT industry.

Company Profile

Tata Consultancy Services (TCS) is a global leader in IT services, digital and business solutions, and consulting. With a workforce of over 500,000 employees, TCS operates in over 46 countries and serves clients across multiple industries. TCS provides a range of services such as application development, maintenance and support, testing, infrastructure management, and business process outsourcing.

Visit Details

We were welcomed by the TCS team represented by Mr. Ravi Kumar Murthy, Academic Relationship Manager at the reception, and our visit started with a presentation about the company's history, operations, and services. The leadership emphasized career path and TCS advantage in their presentation. The presentation was followed by a tour of the facility, where we observed various teams working on different projects. We got excited to visit the TCS cafeteria and had the delicious lunch along with TCS employees as part of our visit. We had the opportunity to interact with employees from different departments, including software development, project management, quality assurance, and testing. They explained to us their roles, responsibilities, and the skills required to succeed in their jobs. We also saw how the teams collaborated and communicated with each other to ensure timely delivery of projects.

Conclusion

The visit to TCS was a valuable experience for us. We gained practical knowledge about the functioning of an IT company and the various departments that work together to deliver IT solutions. We also learned about the latest technologies and trends in the industry, which will be helpful in our future careers. We thank TCS for providing us with this opportunity and our college for organizing the visit

ParvathaneniBrahmayya Siddhartha College of Arts & Science :: Vijayawada					
III B.Sc. (Computer Science with Cognitive Systems) Industrial visit to TCS Hyderabad, 27th February 2023					
S.No.	Roll No	Name	Email address	Gender	Mobile No.
1	203801	ManishaBoddu	manumanisha1999@gmail.com	Female	6283572043
2	203802	DupakuntlaPravallika	pravallikadupakuntla2003@gmail.com	Female	7569669964
3	203804	InturiSaiNagendra	sainagendrainturi@gmail.com	Male	7730037979
4	203805	VallepuRavindraNadh	ravinadhvallepu@gmail.com	Male	7702092299
5	203806	Honey Priyanka Karri	khoneypriyanka4@gmail.com	Female	9392599609
6	203807	KunapareddiMuralikrishna	kunapareddybobbynaidu@gmail.com	Male	9391710236
7	203808	Kattakaleshababu	kattakalesha13@gmail.com	Male	9392851528
8	203809	JahnaviPasupuleti	jahnavipasupuleti1302@gmail.com	Female	9491833386
9	203810	PravallikaAnkalla	pravallikaankalla15@gmail.com	Female	6301589809
10	203811	PathivadaKalyani	kalyanipathivada09@gmail.com	Female	9121197129

11	203812	PuchakayalaPavanKalyan Reddy	pavankalyanreddy.kalyan@gmail.com	Male	8522884701
12	203813	ChanduInturi	203813@pbsiddhartha.ac.in	Male	9392719051
13	203814	ShaikShabuddin	shabu7337234157@gmail.com	Male	6303097275
14	203815	Akkapeddi. Purna Chandra SatyaSai	saiakkapeddi1@gmail.com	Male	6304466235
15	203816	Sivasai	sivasaiveerla1672002@gmail.com	Male	6305193620
16	203817	HariChandanaKagitha	harichandana6051@gmail.com	Female	9347605069
17	203818	GayathriArepalli	gayathriarepalli862@gmail.com	Female	6309856403
18	203820	SaiBalaji	balunaidu6424@gmail.com	Male	8331881939
19	203821	Mallireddy.ManodiniKeerthi Reddy	mallireddymanodini@gmail.com	Female	7396682714
20	203822	KambalaChandralekha	ccchandu423@gmail.com	Female	8340969895
21	203825	SandeepKondaveeti	203825@pbsiddhartha.ac.in	Male	7675042472
22	203826	Jayasurya	surya.dronadula123@gmail.com	Male	7995912755
23	203827	SaiRanganadhKondamothi	sairanganadh810@gmail.com	Male	8106048417
24	203828	TalariVamsi	vamsitalari56@gmail.com	Male	9515562558
25	203829	GurramMadhuManasa	madhumanasagurram2001@gmail.com	Female	9392025388
26	203830	BanothuDevendarNaik	devanaikbanothu@gmail.com	Male	9676538013
27	203831	DharmavarapuCharan	charandharmavarapu2@gmail.com	Male	9676288093
28	203832	Prashanth	prashanthtony94@gmail.com	Male	8639931186
29	203833	V Surya Kiran	suryakiran2405@gmail.com	Male	6302591689
30	203834	K.Leelamanohar	leelamanohark2002@gmai.com	Male	9948996154
31	203861	ChepuriRamya Sri	chepuri19.09@gmail.com	Female	9346592557
32	203862	ChagantiBhargav Reddy	bhargavchaganti4102@gmail.com	Male	8639362659
33	203864	SunkaraGeetha	sunkarageetha1105@gmail.com	Female	9063808788
34	203865	P. Jothika	jothika0822@gmail.com	Female	8885537887
35	203866	Muggalla Rahul	rahulmuggalla02@protonmail.com	Male	8555965759
36	203868	VallabhaneniGopichand	gopichandvallabhaneni5@gmail.com	Male	6305537768
37	203869	Banka Radhikalakshmi	radhikabanka00@gmail.com	Female	6305376059
38	203870	ShaikMustaq	Mustaq2501@gmail.com	Male	9515219770
39	203871	DasariJayaprakash	dasarijayaprakash077@gmail.com	Male	9618878975
40	203872	Abdul HeenaKouser	heenakouser617@gmail.com	Female	9391160705
41	203873	Gopi Krishna	gopikrishnachavala75@gamil.com	Male	8465005472
42	203874	Mohammad Khalilulla	Mdkhalilulla78654@gmail.com	Male	7036825706
43	203875	M.Lakshmi	mattaparthilakshmi1808@gmail.com	Female	6309399288
Accompanying Faculty Details					
1		Mr. Sridhar Kavuri, TPO	sridharkavuri@pbsiddhartha.ac.in	Male	9849965036
2		Mr. E.V.V.S. Siva kumar, Asst. Professor	esivakumar@pbsiddhartha.ac.in	Male	9182064238

17. Participation in Competitions:

Participation in competitions during education fosters critical thinking, creativity, and teamwork among students. It enhances their problem-solving skills, boosts confidence, and encourages a healthy spirit of competition, preparing them for future challenges in academics and the workplace.

Students are encouraged in various competition conducted at various levels like state level and national level, Inter collegiate at University etc.Students are also encouraged present the research articles in the national and International conferences. A sample of presentations is provided below.

Dr. T.S.Ravi Kiran, HoD, Department of Computer Science, S.Nagasai Nishmitha from II MCA,G.Priyanka from II MCA presented a research article "Security Threats and Measures to overcome from Security Threats in Superior

Cloud" in Two Day National Seminar on "Recent Trends in Information Communication Technologies 2023" at Krishna University, Machilipatnam on 03rd and 04th January 2023.

Student Achievement in Student Meets: Ch.Hemalatha (21MCA64) of M.C.A Third Semester has secured Third Prize in INSIGNIA (Logo Design) in a State Level Technical event Tech Sparks-2K22, Sri Durga Malleswara Siddhartha Mahila Kalasala, Vijayawada, on 1st December 2022 organized by Department of Computer Science.

18. Innovations:

Embracing innovation in education promotes critical thinking and a sense of adventure for the students in the classroom. As educators, we leverage innovation to improve student outcomes as to develop those skills that students need to succeed in life.

In P.B.Siddhartha College of Arts and Science, advanced learners are supported by the faculty and management to come up with innovations and are facilitated in all means. Sample evidence of innovations of our students:

- Mr. A.Mani Kanta with register number 20201 of Second Year M.C.A has Developed a prototype on **"QR Code Based Attendance System"** using *OpenCV* **and** *Python* on 11th February 2022 and using this Project Student Attendance can be Recorded and Monitored by scanning the QR Code available on their ID Cards.

- Mr. V.Surya Kumar with register number 20336 of Second Year M.Sc.(Computer Science) has Developed a Proto Type **"Contactless Door Bell"** on 02/03/2022 where he has made use of *Aurduino UNO* and *IS Sensor* for Detecting and Buzzer when a person wants to ring the Bell.

The user is required to just place their hand in front of the IR Sensor and Bell rings Automatically thus this avoids contact to switch.

19. Activities on Special Days:

Activities on special days in education promote awareness and understanding of cultural, historical, and social issues, enriching students' learning experiences. They encourage engagement, foster a sense of community, and develop students' organizational and teamwork skills through participation in meaningful events and celebrations. Our Institute makes sure to follow some important days to bring awareness among students about some social issues to enrich students' learning experiences.
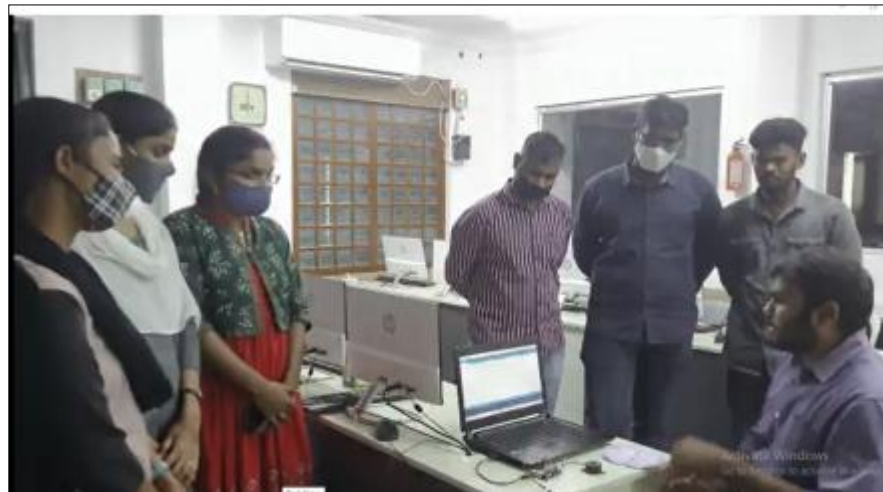
Sample proofs of Activities on Special Days:

P.B.Siddhrartha College of Arts & Science :: Department of Computer Science
Gender Equity Initiative on the eve of "International Human Rights Day"
11th December 2021

The Department of Computer Science conducted activities *Elocution*, *Essay Writing*, *Poster Presentation* and *Singing* as a part of **"Gender Equity Initiative "** on the eve of **"International Human Rights Day"** on **11th December 2021** for M.C.A & M.Sc.(Computer Science) and also distributed Prizes for Winners & Runners.

Objectives of the event:
- Educating the equality of Women and Men as they have equal opportunities as Science & Technology is Advancing.
- Women and men define and characterize equally the social life in its *Political*, *Economic*, *Cultural* and *Social* facets.
- Women and men have equal rights and self-determination in all aspects and stages of their lives.

Number of Participants: 98

Event Coordinators	Signature
A.Kavitha, Asst Professor, Dept of Computer Science	
Dr.T.S.Ravi kiran, HoD, Dept of Computer Science	

20. CRT Training:

CRT (Campus Recruitment Training) is essential for preparing students with the skills needed for job placements, focusing on aptitude, communication, and interview techniques. It boosts confidence, enhances employability, and equips students to succeed in competitive recruitment processes.

Department like Computer Science conducts CRT training every year for the final semester students to get ready for the placements.

Proofs of CRT Training:

P.B.Siddhartha College of Arts & Science :: Department of Computer Science (PG)
Campus Recruitment Training for M.C.A & M.Sc.(Computer Science) Students

03/08/2021 to 24/09/2021

The Department of Computer Science has organized 60 Hours Campus Recruitment Training for M.C.A & M.Sc.(Computer Science) Students during the period 03/08/21 to 24/09/21.

Objective: The major objective of campus placement is to identify the talented and qualified students before they complete their education. To provide the students with knowledge on Aptitude, Reasoning and Core Programming Skills and also to train them to participate in Group Discussion & JAM Sessions.

Mr.Ch.Syambabu of Training & Placement taught *Quantitative*&*Numerical Ability* and *Mrs. V.Bhanu Nareesha* taught Verbal Reasoning.

Outcome: Students are trained to face recruitment exams conducted by Public or Private Sectors.
Number of Classes Conducted: 60 (60 Hours)
Participants: M.C.A Second Semester Students: 22
M.Sc.(Computer Second) Semester Students: 23

Event Coordinators:	Signature	Event Coordinator	
1.Mr. Ch. Syambabu		Dr.T.S.Ravi Kiran	
2.Mrs. V.Bhanu Nareesha			

21. Feed backs:

Feedback is vital in education as it guides students toward improvement, clarifying strengths and areas needing growth. Constructive feedback fosters self-reflection, enhances learning outcomes, and motivates students to reach their full potential.

At or Institute Feedbacks are taken every semester on every course and on the whole programme so as to take necessary Inputs from the students.

Students give their feedback either through Google forms or questionnaires

Sample Proofs of Feedbacks:

22. FDP:

Faculty Development Programs (FDPs) equip educators with modern, student-centric teaching strategies like experiential learning, participative learning, and problem-solving methodologies. Through these programs, faculty gain practical tools, insights, and best practices, allowing them to create interactive and engaging learning environments that encourage critical thinking and real-world application for students.

At our Institute, the faculty members are nominated for FDP's (offline & online). They are well trained in both domain specific as well as general topics like human values, mentoring etc.
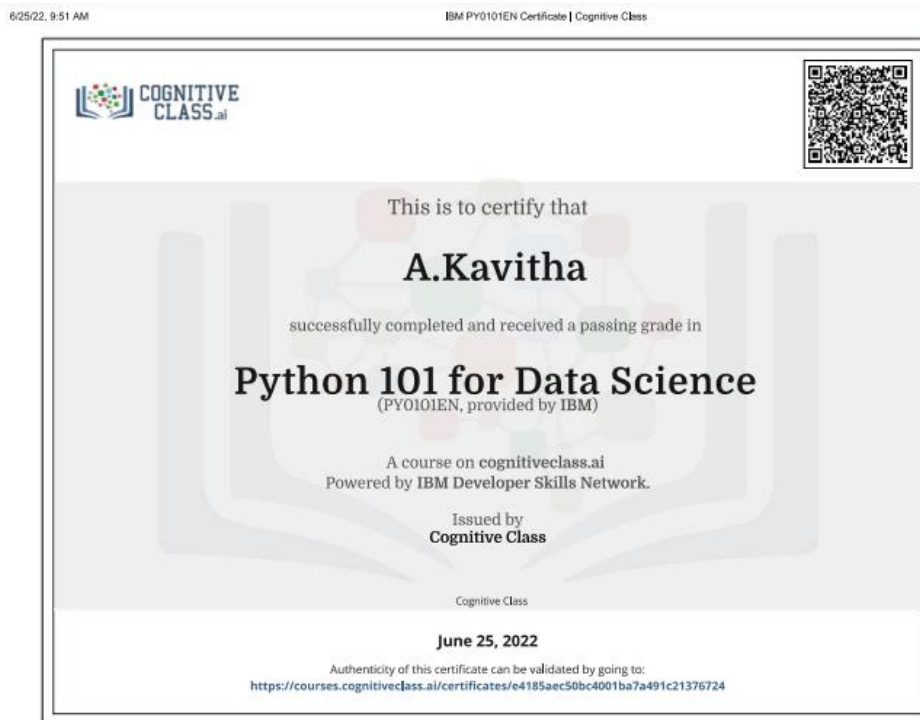
23. Annual Day& Cultural Day:

Annual Day in our institute celebrates students' achievements, talents, and cultural diversity, fostering a sense of pride and community. It provides a platform for students to showcase their skills in arts, sports, and academics, boosting confidence and encouraging holistic development.

**Proofs of Annual Day Celebrations**

24. Library

Libraries are essential in education as they provide access to a wealth of knowledge, resources, and learning materials, supporting students' academic and personal growth. They foster a culture of reading, research skills, and independent learning, encouraging intellectual curiosity and lifelong learning habits.

Our Library was come into existence in the year 1975 along with the college establishment. Ours is one of the best libraries in this region having the huge collection of 94001 volumes comprises of Text Books, Reference Books, Encyclopedias, Dictionaries, Competitive Exams, Career Guidance Personality Development etc....

Our Services are:

- OPAC (Online Public Access Catalogue)
  - Remote access with shelving location along with book reservation option

- Orientation of the library resource
  - Providing instructions about the library usage

- Reading Hall
  - Students can read library or course related material.

- E-Resource development
  - subscribe electronic resources for the library users.

- Circulation

- Reference

- Inter library loan (sister concern Institutions)

- Reprography

- Digitized old Question Papers (created QR code)

- Multimedia Space

- Recommend a book/Journal
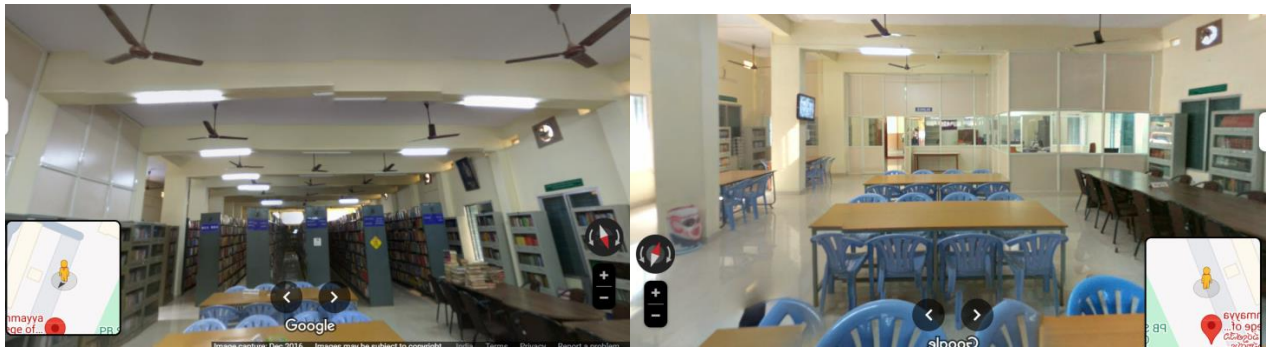
25. Extracurricular activities

Extracurricular activities in higher education play a crucial role in student development by helping students acquire essential skills like leadership, teamwork, time management, and communication. They foster personal growth, confidence, and social connections, while also providing stress relief and motivation that can enhance academic performance. By promoting active, participatory learning outside the classroom, extracurricular align with NAAC's **Student-Centric Methods**, encouraging student engagement through leadership roles, collaboration, and practical experience. These activities contribute to holistic development, nurturing critical thinking, emotional intelligence, and inclusivity, while also improving career prospects through networking, hands-on experience, and a well-rounded resume.
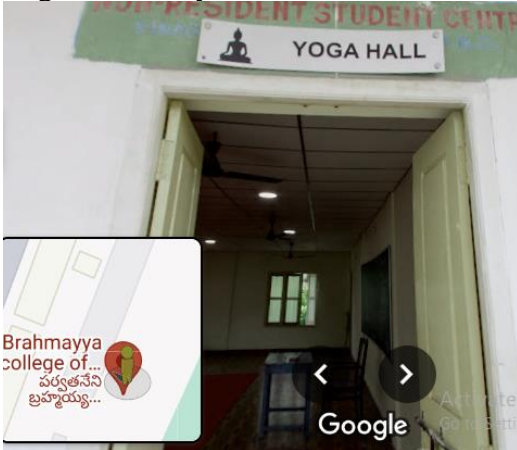
Extracurricular Activities at our institute as follows

- Women Empowerment
- NCC
- NSS
- Sports & Yoga
- Student Clubs
- Green Initiative
- Dramatic & Cultural Committee

Yoga Hall & Gym

Indoor Stadium