



2.3.1: Student centric methods, such as *Experiential Learning, Participative Learning and Problem Solving Methodologies* are used for enhancing Learning Experiences, 2021-2022



P.B.Siddhartha College of Arts & Science::Department of Computer Science (PG)

02nd December 2021, 12.30 P.M to 2.30 P.M

Webinar on “LinkedIn Essentials”



Objective: To demonstrate various services offered by LinkedIn.

The Department of Computer Science, P.B.Siddhartha College of Arts & Science had organized a Webinar on “**Linked in Essentials**” on **02nd December 2021 between 12.30 P.M to 2.30 P.M** for both Post Graduate and Under Graduate in association Indian Institute of Digital Education (IIDE) on the eve of “**World Computer Literacy Day**”.

Mr. Chintan Mehta Strategic Marketing Specialist, IIDE was the resource person. He explained *Importance of LinkedIn, How to Create All Start Profile, Building a Strong Network, Data Viewing and Posting In LinkedIn, First, Second and Third Degree Connections, Applying Jobs Through LinkedIn.*

Number of Students Attended: 333

Outcome of Webinar:

- Students are able to gain awareness about LinkedIn Essentials for improving their profile for Job Searching and growing professional Connections

Resource Person: Mr. Chintan Mehta Strategic Marketing Specialist, IIDE, Mobile: 7045784741
Event Coordinators: 1.Dr.T.S.Ravi Kiran, HOD, Dept. of Computer Science 2.Mr.Sridhar, Deputy HoD,UG 3.Mr.G.Samarta Krishna, Assistant Professor, Department of Computer Science.





P.B.Siddhartha College of Arts & Science :: Department of Computer Science
40 Hour Faculty Orientation Program on Machine Learning
28th December 2020 to 9th January 2021 (10 Days)

Objective: To provide hands on training on Machine Learning Libraries, Models, Algorithms and other essentials.

The Department of Computer Science, P.B.Siddhartha College of Arts & Science had organized **“40 hour Faculty Orientation Program on Machine Learning”** on 28th December 2020 to 9th January 2021 for the Faculty Members of the Department of Computer Science.

Number of Faculty Members Participated: 25

Topics Covered: Python Libraries for Machine learning, Machine Learning Landscape, Modelling Evaluation and Performance Measurement, Understanding Supervised Learning, Regularized Linear Models, Supervised Learning-Classification, Decision Trees and Ensemble Learning, Support Vector Machines, Bayesian Concept Learning and Nearest Neighbours and Understanding Unsupervised Learning.

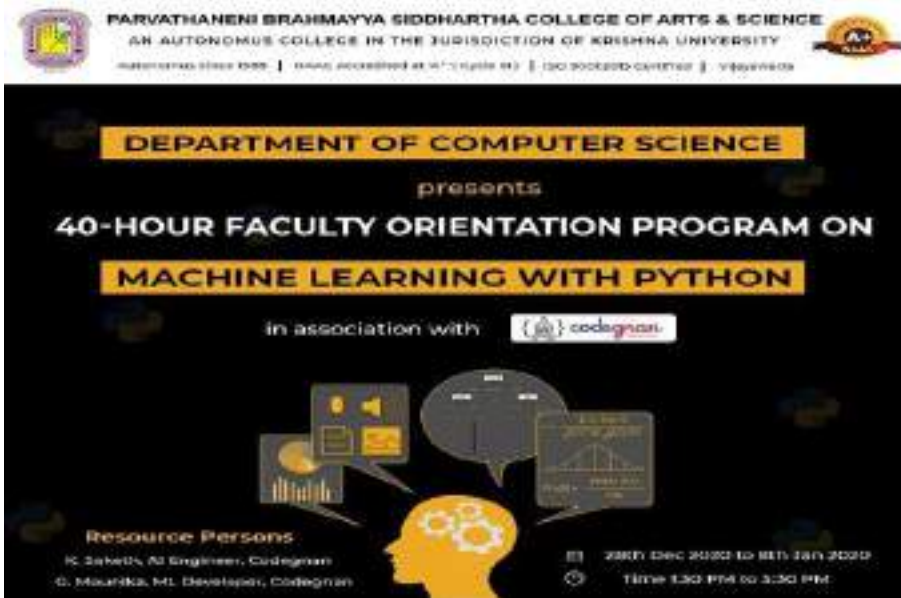
Outcome of Faculty Orientation Program:

- Teachers are able to gain hands on practice on Machine Learning Libraries, Models and Algorithms.

Resource Persons:

- Mr. Saketh Reddy Kallepu, AI Engineer, Codegnan IT Solutions, Vijayawada.
Email: sakethreddy.kallepu@gmail.com Mobile: 81064297712
- G. Mounika, ML Developer, Codegnan IT Solutions, Vijayawada.

Event Coordinator: Mrs.R.Vijaya, Assistant Professor, Department of Computer Science.



Mr Saketh Reddy Kallepu Resource Person,Codegnan It solutions address the gathering.



Participants with Trainers and Management.



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



**6 Day Hands on Workshop on Building Virtual Assistant using Python
20th to 25th September 2021**

The Department of Computer Science organized 6 Day Hands on Workshop on “Building Virtual Assistant using Python” from 20th to 25th September 2021 for Under Graduate Students in collaboration with Rotary Club of Vijayawada.

Number of Participants: 40

Outcome of the event: After the completion of Work Shop students could able to

- Install the pre-built Virtual Assistant Python environment.
- Create two voice communication functions, one for listening and another for responding.
- Create voiced responses to the kinds of questions you want your assistant to answer.

Resource Person: Mr.Saketh Reddy, Codegnan IT Solutions OPC Pvt. Ltd., Vijayawada. Mobile: 8106429771

Convenor: Mr.K.Sridhar, Dy. Head, UG, Dept of Computer Science.



Venue : P.B. Siddhartha College of Arts and Science, Computer Centre

Convenor
Mr. Sirdhar Kavuri,
Dy. Head, Dept. of Computer Science



Coordinator
V. Jhansi lakshmi
T. Malleshwari

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College of Arts & Science::Department of Computer Science

06th November 2021, 11 A.M to 1 P.M
Seminar on “How to Lead Edutech Organization”



Objective: To explain new *Technological Implementations* in the Classroom.

The Department of Computer Science, P.B.Siddhartha College of Arts & Science had organized a Seminar on “**How to Lead Edutech Organization**” on **06th November 2021, 11 A.M to 1 P.M** for both Post Graduate and Under Graduate students. Mrs.Anuradha Thota, CEO, Blackbuck Engineers Pvt. Ltd., Hyderabad was the resource person. She explained

- How a combination of “*Education*” and “*Technology*” enhances the *Teacher-led Learning* in classrooms and improve students' *Education Outcomes*.
- New *Technological Implementations* in the Classroom.
- How to improve *Individualized Education*, and reduce the *Teaching Burden* on instructors.
- Various *Data Collection Methods* for both *Students and Teachers*.

Number of Students Attended: 65

Outcome of Seminar:

- Students and teachers are able to gain awareness on New *Technological Implementations* in the Classroom.

Resource Person: Mrs.Anuradha Thota, CEO, Blackbuck Engineers Pvt. Ltd., Hyderabad.

Mobile: 9000701020 Email: anuradha.thota@theblackbucks.com

Event Coordinator: Mr.K.Sridhar, Deputy HoD,UG





**P.B.Siddhartha 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	
A.Kavitha, Asst Professor, Dept of Computer Science	Dr.T.S.Ravi kiran, HoD, Dept of Computer Science





**P.B.Siddhartha College of Arts & Science :: Department of Computer Science
24th December 2021, 10 A.M to 1 NOON
FDP on “The Art of Teaching Programming Courses”**

Objective: To create awareness to *Faculty Members* for teaching *Programming Courses Innovative*.

The Department of Computer Science, P.B.Siddhartha College of Arts & Science had organized a Faculty Development Program on “**The Art of Teaching Programming Courses**” on **24th December 2021 between 10 A.M to 1 NOON** for Faculty Members of various Institutions.

Number of Faculty Members Attended: 27

He explains

- Tips for maximizing the *Effectiveness of Coding Classes* and *Problem Solving Skills*.
- How to tackle *Complex Problems* by breaking them down into smaller problems which are easier to manage and solve.
- Learning to code that helps a *Students’ Creativity*.
- How students improve their *Structural Thinking* when Learning to Code.
- Coding practices to develop *Real Time Applications*.

Outcome of FDP: Faculty learned *How to Teach Students* and *Develop Creative Thinking* for writing programs using any *Programming Language*.

Resource Person: Resource Person: Dr.M. Babu Reddy, Principal, Krishna University College of Engineering and Technology, Krishna University, Machilipatnam & Secretary CSI, Vijayawada Chapter.

Mobile: 9963436460, Email: m_babureddy@yahoo.com

Event Coordinator: K.Sridhar, Deputy HoD, UG

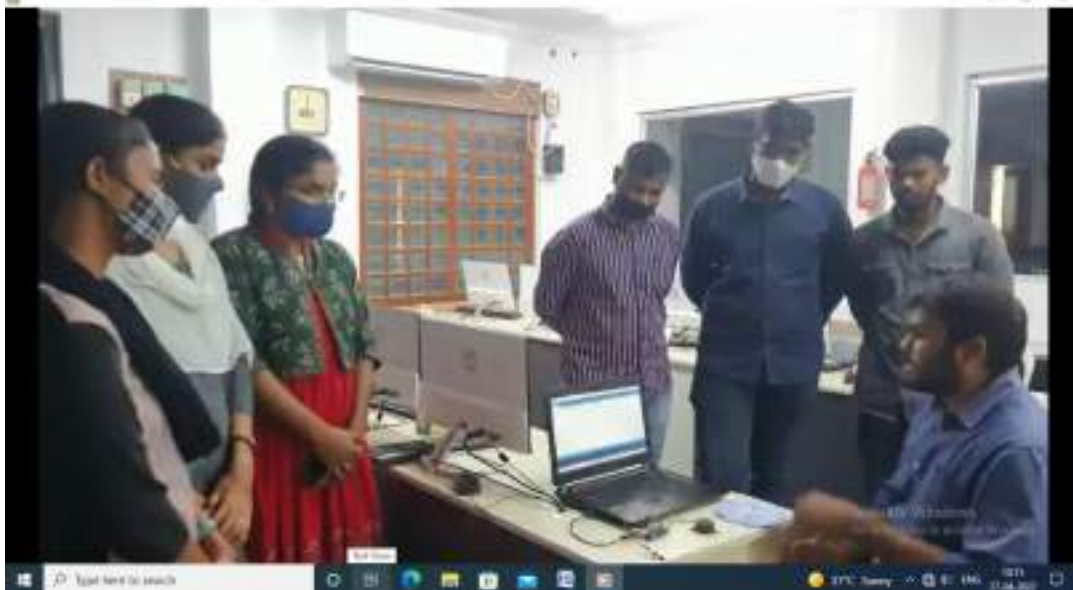


P.B.Siddhartha College of Arts & Science::Department of Computer Science (PG)
Innovations by the Student of Computer Science

- 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.





**P.B.Siddhartha College of Arts & Science :: Department of Computer Science
22nd February 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 **22nd February 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





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



The Department of Computer Science, P.B.Siddhartha College of Arts & Science had organized a “Hands on Workshop on Deep Learning 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 Learning, 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





**P.B.Siddhartha 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: tvvijay@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.



Techno-cultural students' meet tomorrow

PME ■ VIJAYWADA

The Department of Computer Science, Siddhartha Arts and Science College, is organising a one-day State-level techno-cultural postgraduate students' meet called Vibhaava-2022 on Friday, said Computer Science HoD Dr TS Ravi Kiran. He said that the main

objective of the meet was to provide a common platform for the students across the State to share knowledge and exhibit their talents in various technical and non-technical events. On Wednesday, a wall poster was released by the college principal. Dr Ravi Kiran said that the chief patrons of the students' meet would be Dr

C. Nageswara Rao, president, SAGTE, P Lakshman Rao, secretary and S Venkateswara Rao, college convener.

He said that various events like technical quiz, paper presentation, project expo, coding and decoding, e-waste management, Mr & Mrs Vibhaava, videography and group dance.

Press Clipping, Hans India, 24/03/2022

Press Clipping, Eenadu. 26/03/2022



P.B.Siddhartha 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

Careers in Cloud Computing With AWS
 On Tuesday, 29th March 2022
 in WEBINAR HALL
 Organised by Dept. of Computer Science
 In Association with
ROTARY CLUB OF VIJAYAWADA EAST
 Rtn K Ravi Kumar President
 Rtn S Nagabhushanam Secretary
Speaker
Rtn. V. Sree Kiran Babu
 Corporate Trainer
 MD, SRK Software Consultancy,
 Visakhapatnam.



వైపుణ్యులుంటే ఐటీ రంగంలో ఉపాధి

మెగాఫ్యాకలీటీ(విజయవాడ ఊర్బరు): విద్యార్థులు వైపుణ్యులు కావడంతో ఐటీ రంగంలో ఉపాధి అవకాశాలు ఉపాధి అవకాశాలను పొందే సాధ్యమే. సాఫ్ట్వేర్ వైపున ఉండటం విజయవాడలో ఉన్న ఐటీ రంగంలో ఉపాధి అవకాశాలను పొందే సాధ్యమే. సాఫ్ట్వేర్ వైపున ఉండటం విజయవాడలో ఉపాధి అవకాశాలను పొందే సాధ్యమే. సాఫ్ట్వేర్ వైపున ఉండటం విజయవాడలో ఉపాధి అవకాశాలను పొందే సాధ్యమే.

వైపుణ్యులు
 విజయవాడలో ఉన్న ఐటీ రంగంలో ఉపాధి అవకాశాలను పొందే సాధ్యమే. సాఫ్ట్వేర్ వైపున ఉండటం విజయవాడలో ఉపాధి అవకాశాలను పొందే సాధ్యమే. సాఫ్ట్వేర్ వైపున ఉండటం విజయవాడలో ఉపాధి అవకాశాలను పొందే సాధ్యమే.

Press Clipping, Eenadu, 30th March 2022



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





P.B.Siddhartha 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 Language Processing* 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.

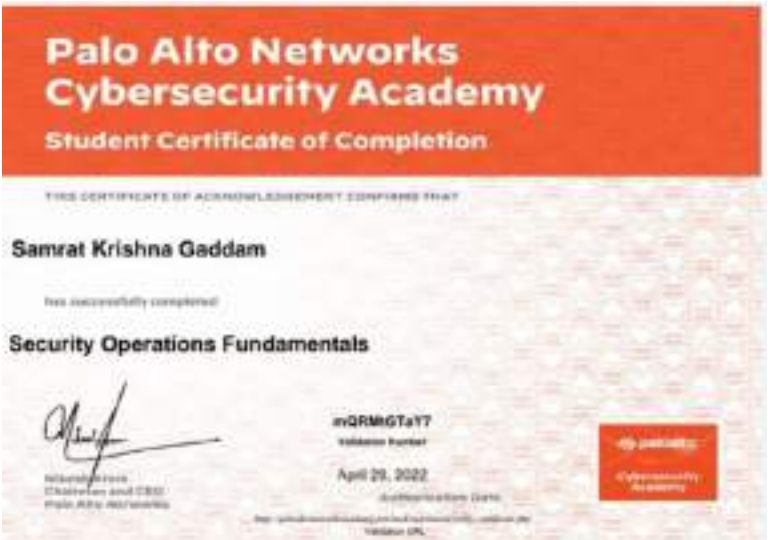
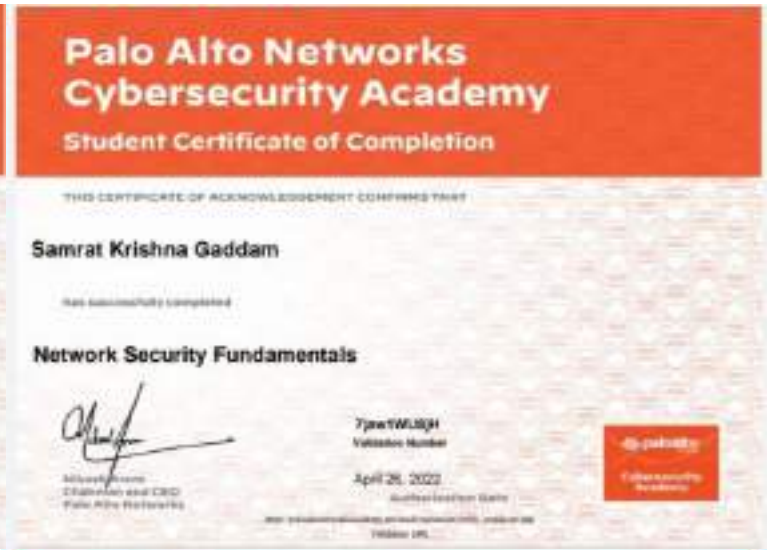
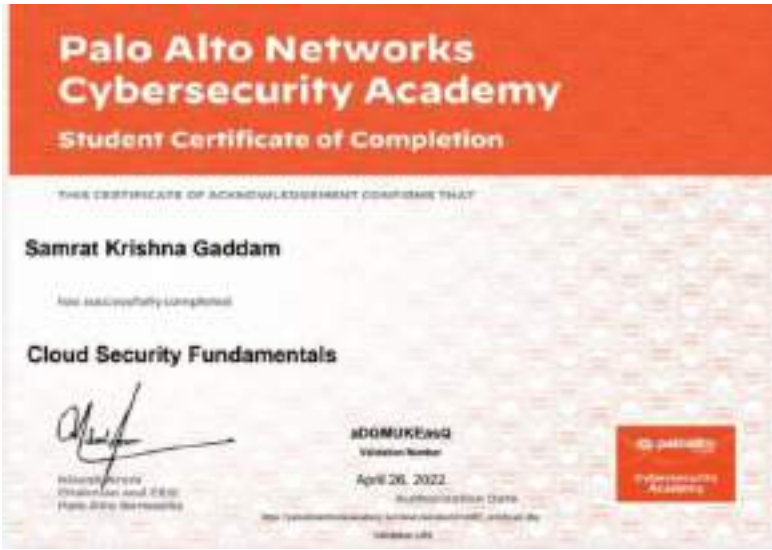
Resource Person: Mrs.P.Lakshmi, Managing Director, Vision Computers, Vijayawada.
Mobile: 8008169169 Email: visioncomputers.vjw2019@gmail.com

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 :: Vijayawada
Palo Alto Networks Cybersecurity Academy, 26th April 2022**

- In collaboration with EduSkill Mr.Samrat Krishna Gaddam, Assistant Professor, Department of Computer Science completed “Cloud Security Fundamentals”, “Network Security Fundamentals”, “Security Operations Fundamentals” and “Cyber Security Foundation” from Palo Alto Networks Cybersecurity Academy on 26th April 2022.





**P.B.Siddhartha College of Arts & Science :: Department of Computer Science
Seminar on “Full Stack Technologies and Carrier Opportunities”
27th April 2022**



Objective: To provide awareness on “Full Stack Technologies and Carrier Opportunities”.

- The Department of Computer Science organized a Seminar on “Full Stack Technologies and Carrier Opportunities” on 27th April 2022 in collaboration with Bit Labs, Vijayawada. Mr.Sreedhar Tatavarthi, CEO, bitLabs, Vijayawada acted as resource person. He shed light on What is Full Stack Development?, Front end Development (Client side), Back end Development (Server side), Example of a Real World Full Stack Application, He also focused on Full Stack Technologies like *MEAN*, *MERN*, *Django Stack*, *Ruby on Rails*, *LAMP Stack*. He explained Career Opportunities in Full Stack Development. 50 students from M.C.A Fourth Semester had attended the guest lecture.

Resource Person: Mr.Sreedhar Tatavarthi, CEO, bitLabs, Vijayawada.
Mobile: 9182616657 Email: rakesh.saladi@bitlabs.in

Outcome: Gained awareness on latest *Full Stack Technologies* and *Job Openings*.

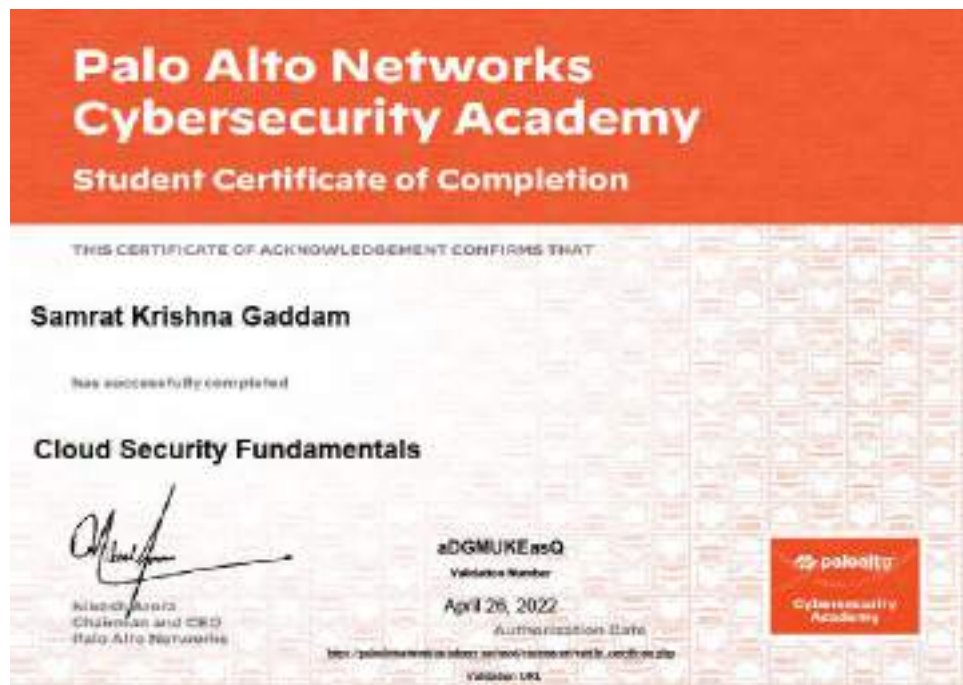
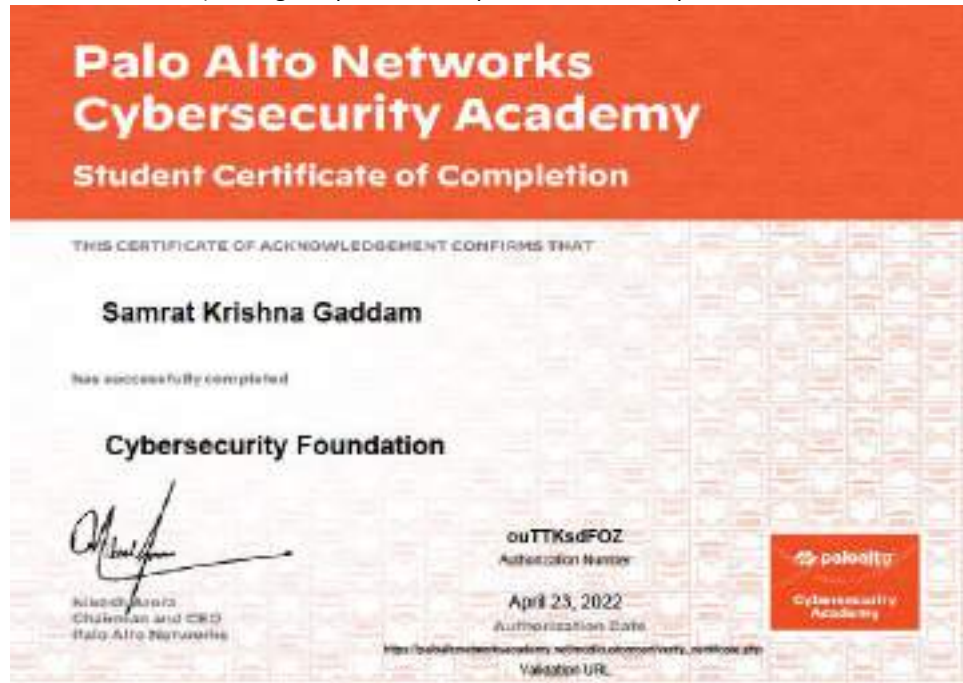
Event Organizers: 1. Dr.T.S.Ravi Kiran, HOD, Department of Computer Science
2. G.Samrat Krishna, Assistant Professor, Dept of Computer Science



P.B.Siddhartha College of Arts & Science :: Vijayawada

Certifications from Palo Alto Networks Cybersecurity Academy in collaboration with Eduskills

- In collaboration with EduSkill Mr. G.Samrat Krishna attended 5-Days workshop on Palo Alto Networks Certified Cyber Security Entry-Level Technician and as part of it, he completed Four Certifications (Cybersecurity Foundation, Cloud Security Fundamentals, Network Security Fundamentals and Security Operations Fundamentals) during the period 23rd April 2022 to 29th April 2022





**P.B.Siddhartha College of Arts & Science :: Department of Computer Science
13th May 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: nirnal.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



M.Sc.(CS) seniors students (2020-2021 Batch) offering lunch to their juniors (2021-2022) on the eve of Induction Program on 13th May 2022.



**P.B.Siddhartha College of Arts & Science::Department of Computer Science
Mini Project training to UG Computer Science Students using Full Stack Technologies
in Collaboration with Blackbucks Engineering Pvt.Ltd., Hyderabad,
25th May 2022 to 8th June 2022 (15 Days)**



- The Department of Computer Science in association with Blackbucks Engineering Pvt.Ltd., Hyderabad offered Mini Project Traing from 25th May 2022 to 8th May 2022 (15 Days) in the college premises. Students have successfully completed their mini projects after training using Full Stack Technologies.
- Outcome: Student gained real time experience as they were trained by experts from the industry.
- Technologies Trained: HTML, CSS, Java Script, Bootstrap, Php, Xampp, SQL, MySQL Servers, Java Firebase Database.

Number of students Benefitted: 190

Number of Projects Completed: 48

Trainers
1.K.R.L Narasimha, Senior Technical Trainer, Blackbucks Engineering Pvt.Ltd., Hyderabad. Mobile: 8317662739 Email: kanumuri.narasimha@gmail.com
2.Mohamed Nawfal, Technical Trainer, Blackbucks Engineering Pvt.Ltd., Hyderabad. Mobile: 8508044767 Email: ag.nawfal619@gmail.com

Event coordinator: Mr. Kavuri Sridhar, Assistant Professor & Inchage, UG Computer Science



P.B.Siddhartha College of Arts & Science :: Vijayawada
Certifications from AWS Academy in collaboration with Eduskills

In collaboration with EduSkill Mr. E.V.V.S Siva Kumar & K.Sirisha completed 20 hours course on AWS Academy Graduate - AWS Academy Cloud Foundations and completed certification on “AWS Academy Cloud Foundations”





**P.B.Siddhartha College of Arts & Science :: Department of Computer Science
 “Workshop on IOT” in association with Alumni, P.B.Siddhartha College of Arts & Science
 20th June 2022 to 22nd June for M.Sc.(Computer Science), 2020-2022 Batch**

Objective: To train the students to develop Prototypes and Mini Projects using IoT.

The Department of Computer Science, P.B.Siddhartha College of Arts & Science had organized “Workshop on IoT” in association with Alumni, P.B.Siddhartha College of Arts & Science from 20th June 2022 to 22nd June for 2020-2022 batch students of M.Sc.(Computer Science). Mr. D.Srinivasa Reddy, Assistant Professor, Department of Electronics, P.B.Siddhartha College of Arts & Science was the resource person.

Number of Students Attended: 30

Outcome of Seminar: Students are able to learn about Arduino IDE and developed Prototypes.

Day	Topics Covered
Day 1	Introduction to Embedded Systems, Arduino and Arduino in IoT.
Day 2	Arduino Interfaces, LED Blink, Control LED status on Button State.
	Display <i>Serial Data</i> on <i>Serial Monitor</i> using <i>Serial Communication</i> .
	LED brightness control using <i>PWM Signal</i> .
Day 3	Taking <i>LDR readings</i> using <i>Analog Read Function</i> .
	Control direction of <i>Servo Motor</i> MG-90 from 0° to 180°.
	Control direction of <i>Servo Motor</i> based on LDR values.
	Interface <i>HCSR04 Ultrasonic Sensor</i> to Arduino and find the distance of the object. <i>Smart Dust Bin</i> using <i>Ultrasonic Sensor</i> and <i>Servo Motor</i> .

Resource Person
Mr. D.SrinivasaReddy, Assistant Professor, Department of Electronics, P.B.Siddhartha College of Art & Science, Vijayawada. Mobile: 8125555601 Email: dsrinivasareddy@pbsiddhartha.ac.in

Event Coordinators	
Mr. V.V.Ramana	Dr.T.S.Ravi Kiran

P.B. Siddhartha College of Arts & Science
 Vijayawada, Andhra Pradesh
 Accredited by 'A+' by NAAC (Ever Fit)
 College with potential for excellence (Awarded by UGC)

**Workshop on Internet of Things
 Arduino**
 For Post Graduate Computer Science Students in collaboration
 with
 Alumni Association of P.B.Siddhartha College of Arts & Science
 20th June 2022 to 22nd June 2022, 2:30 P.M to 5:00 P.M

Resource Person:
 Mr. D. Srinivasa Reddy
 Assistant Professor,
 Dept. of Electronics,
 P.B.Siddhartha College of Arts & Science,
 Vijayawada - 520 010

Coordinator:
 V.V.Ramana (vramana@pbsiddhartha.ac.in)
 T.S.Ravi Kiran (tsravin@pbsiddhartha.ac.in)
 Department of Computer Science,
 P.B.Siddhartha College of Arts & Science
 Email: vramana@pbsiddhartha.ac.in

Organizing Secretary:
 Dr. T.S.Ravi Kiran
 Head, Department of Computer Science,
 P.B.Siddhartha College of Arts & Science,
 Mobile: 9442219882
 Email: tsravin@pbsiddhartha.ac.in

Organized by:
 Department of Computer Science, P.B.Siddhartha College of Arts & Science
 In Association with
 Alumni Association of P.B.Siddhartha College of Arts & Science



P.B.Siddhartha College of Arts & Science :: Vijayawada
Certifications from celonis in collaboration with Eduskills, 7th July 2022

- In collaboration with EduSkill Mrs. John Bee Shaik, Assistant Professor, Department of Computer Science completed Celonis Academic Educator Training Program on 07th July 2022.



P.B.Siddhartha College of Arts & Science :: Vijayawada
Certifications from AWS Academy in collaboration with Eduskills, 12th July 2022

- In collaboration with EduSkill Mrs. Sirisha Koppisetty, Assistant Professor, Department of Computer Science completed "AWS Academy Graduate - AWS Academy Cloud Architecting" on 12th July 2022.



P.B.Siddhartha College of Arts & Science :: Vijayawada
Certifications from AWS Academy in collaboration with Eduskills, 12th July 2022

- In collaboration with EduSkill Mr.E.V.V.S Siva Kumar, Assistant Professor, Department of Computer Science completed “AWS Academy Graduate - AWS Academy Cloud Architecting” on 12th July 2022.





P.B.Siddhartha College of Arts & Science::Department of Computer Science (PG)
Innovations by the Student of Computer Science
QR Code Based Attendance Monitoring System with Report Generation, 7th July 2022

- Mr. A.Mani Kanta with register number 20201 of Second Year M.C.A has Developed a prototype on “QR Code Based Attendance Monitoring System with Report Generation” using and *Python* on 7th July 2022 and using this Project Student Attendance can be Recorded and Monitored and Reports are exported into various formats like Excel, CSV, JSON by scanning the QR Code available on their ID Cards.





**P.B.Siddhartha College of Arts & Science :: Department of Computer Science
Hands on Workshop on “Kickstart with AWS” on the eve of “World Youth Skills
Day”, July 15th 2022**

The Department of Computer Science, P.B.Siddhartha College of Arts & Science had organized Hands on Workshop on the eve of “**World Youth Skills Day**” on **15th July 2022 for UG Computer Science Students.**

Mr. U.Sairam, C.E.O, Codegnan IT Solutions Pvt. Ltd., Vijayawada was the resource person. He demonstrated creation of Virtual Machines in Cloud Environment, Assigning of Public IP’s in Virtual Machines, Assigning of Public IP’s to the Virtual Machines, Applying Load Balancers and Elasticity in Cloud.

Number of Participants: 120

Outcome: Students are

- Provided with AWS Educate Account.
- Able to create Virtual Machines in Cloud Environment.
- Assign of Public IP’s to the Virtual Machines.
- Applying Load Balancers and Elasticity in Cloud.

Resource Person: Mr. U.Sairam, C.E.O, Codegnan IT Solutions Pvt. Ltd., Vijayawada	
Mobile: 9959555952	Email: sairam@codegnan.com

Events coordinators:

K.Sridhar, Assistant Professor

E.V.V.S Siva Kumar, Assistant Professor



DEPARTMENT OF COMPUTER SCIENCE
PRESENTS

**Kickstart
with
aws**

July 15th 2022

10:00 AM to 11:30 AM



P.B.Siddhartha College of Arts & Science :: Vijayawada
Educator Training Certificate from AWS Academy in collaboration with Eduskills, 18th July 2022

- In collaboration with EduSkill Mrs. Sirisha Koppisetty, Assistant Professor, Department of Computer Science completed "Educator Training Certificate from AWS Academy" on 18th July 2022.



P.B.Siddhartha College of Arts & Science :: Vijayawada
Educator Training Certificate from AWS Academy in collaboration with Eduskills, 18th July 2022

- In collaboration with EduSkill E.V.V.S Siva Kumar, Assistant Professor, Department of Computer Science completed "Educator Training Certificate from AWS Academy" on 18th July 2022.



- Mr. K.Sridhar, Assistant Professor, Department of Computer Science has participated in Fifth International Conference on Smart Technologies in Data Science and Communication (SMART DSC-2022) from 20th July 2022 to 22nd Jul 2022 organized by the CSE Department of KL University, Development.





P.B.Siddhartha College of Arts & Science :: Department of Computer Science
Faculty Development Program on Microsoft Power Bi Data Analyst Associate



25th July 2022 to 29th July 2022 (Five Days) in Collaboration with ICT Academy

Objective: To familiarize the Faculty Members with Power Bi environment and its applications.

The Department of Computer Science, P.B.Siddhartha College of Arts & Science in association with ICT Academy had organized Five Day FDP on **Microsoft Power Bi Data Analyst Associate** during 25th July 2022 to 29th July 2022 (Five Days). As part of FDP the resource person taught different applications of Power Bi & familiarized the faculty with the various sources of data to import and conducted hands on sessions to develop *Visualizations* and *Dashboards* using *Data Analysis Expression (DAX)* commands, *Power Query Editor*, *Data Modeling*, and *Customized Dash Boards*.

Outcome: Faculty got familiar with *Power Bi Environment* and able to develop *Visualizations* and *Dashboards* using *Data Analysis Expression (DAX)* commands.
Number of Participants: 34

Venue: Laboratory 330 (10 A.M to 4 P.M)
Resource Person: Mr K. Raghavendra Swami, Sr. IT Trainer acted as Master Trainer.
Mobile: 9989653858 **Email:** swamy1712@gmail.com, raghavendra@ictacademy.in

Event coordinator: Mr.Kavuri Sridhar, Assistant Professor, Dept of Computer Science



Hands on session on Power Bi by Mr.K.Raghvendra Swami, Sr. IT Trainer ICT Academy on 28th July 2022.



Press Clipping on Eenadu dated 30th July 2022.



Inauguration by Mr.Srinivasan, State Head, ICT Academy on 25th July 2022.



Group Photo of Participants on 29th July 2022

Course Name: MICROSOFT POWER BI DATA ANALYST ASSOCIATE

Duration: 40 hours (5 days)

Course Overview: The Power BI data analyst delivers actionable insights by leveraging available data and applying domain expertise. The Power BI data analyst collaborates with key stakeholders across verticals to identify business requirements, cleans and transforms the data, and then designs and builds data models by using Power BI. The Power BI data analyst provides meaningful business value through easy-to-comprehend data visualizations, enables others to perform self-service analytics, and deploys and configures solutions for consumption. Candidates for this exam should be proficient using Power Query and writing expressions by using DAX.

Pre-requisite: Basic Cloud and Database Knowledge

Course Outline

The contents of this course are designed to support the course objectives. The following focus areas are included in this course:

1. Get started with Microsoft data analytics
2. Prepare data for analysis
3. Model data in Power BI
4. Visualize data in Power BI
5. Data analysis in Power BI
6. Manage workspaces and datasets in Power BI

Course Outcomes:

Upon successful completion of the course, participants should be able to :

Prepare the Data:Get data from different data sources, Clean, Transform, and Load the data

Model the Data:Design and develop a data model, create model calculations by using DAX, Optimize model performance.

Visualize and Analyze the Data:Create Reports, Dashboards, Enhance reports for usability and storytelling

Deploy and Maintain Assets:Managing files and datasets, workspaces



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

**Campus Recruitment Training for M.C.A, M.Sc.(Computer Science) and
M.Sc.(Computational Data Science) Students
27th June 2022 to 13th August 2022 (15 Hours)**

Objectives:

- 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.
- The Department of Computer Science has organized 15 Hours Campus Recruitment Training for M.C.A, M.Sc.(Computer Science) & M.Sc.(Computational Data Science) Students during the period 27th June 2022 to 13th August 2022.
- Mr.Ch.Syambabu of Training & Placement taught Quantitative & Numerical Ability and Mrs. V.Bhanu Nareesha taught Verbal Reasoning was the resource persons.

Outcome: Students are trained to face recruitment exams conducted by Public or Private Sectors.

Number of Classes Conducted: 15 (15 Hours)

Participants: 145

Trainers:

Mr. Ch. Syambabu, Mobile: 7674004385, Email: rajsinghchandolu024@gmail.com

Mrs. V.Bhanu Nareesha, Mobile: 9160881945, Email: vanamalibhanu@gmail.com





**P.B.Siddhartha College of Arts & Science :: Department of Computer Science
Hands on Workshop on Python for Data Science, 29th August 2022**

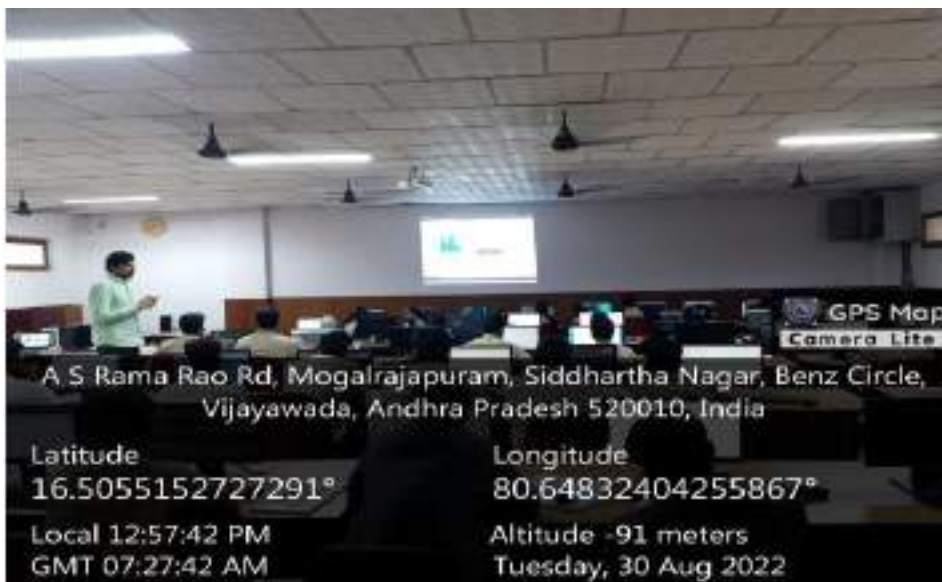
- (a) Type of Event: Hands-on Workshop
- (b) Title of Event: **"Python for Data Science" One day Hands on Workshop**
- (c) Date of Event organized/Duration: 29/8/2022; One Day
- (d) Venue: MSDS Lab
- (e) Details about Resource Person: Mr.Sairam Uppugundla, CEO, Codegnan IT Solutions Pvt. Ltd, Vijayawada Graduate Students benefitted through this program.
- (f) Mobile: 9959555952, Email: sairam@codegnan.com
- (g) Name of the Coordinator: Mr. K. Sudhir, Assistant Professor, Department of Computer Science
- (h) Topics Covered: Introduction to Python, Python Strings, Python Data Structures: Lists, Tuples, Sets, Dictionaries, NumPy and its Methods, Pandas:Series, Dataframes, Making Changes to Series and Data Frames, Importing and Exporting Data, Plotting:Matplotlib Introduction, Univariate Plots-Histograms, Bivariate Plots- Scatter Plot and Box Plot.
- (i) Number of Participants: 36 Students from B.Sc.(AIML) and 4 Faculty Members.
- (j) Feedback given by participants (Both strength and weakness):

Strengths:

- Excellent and talented Industry Expert.
- Students can join for Internships in Codegnan.
- Exposure of students to Data Analysis Domain.
- Hands on practice with multiple examples.
- Workshop covered topics in their syllabi as well as beyond syllabi.

Weakness:

- More hands-on experience is required to strengthen the practical knowledge.
- Faculty can concentrate more when there is no class work
- How to overcome weaknesses of upcoming events: It is decided to arrange hands-on training for the upcoming events and also planned to organize these kinds of events in vacation.



Resource person Mr.U.Sairam demonstrating Data Analysis using Graphs.



P.B.Siddhartha College of Arts & Science :: Department of Computer Science
SAVISKARA 2022
Intra Departmental PG Computer Science Student Meet, 06th August 2022

Objectives:

- To provide platform for students to share their innovations and knowledge.
- To improve competitive spirit among the students.

The department of computer science has organized intra-departmental post graduate student meet “Saviskara2022” on 06th August 2022 and conducted the events *Paper Presentation, Coding & Decoding, Technical Quiz* and *Personality Contest* for M.C.A, M.Sc.(Computer Science) and M.Sc.(Computational Data Science) students to improve the competitive spirit among them and also distributed cash prizes to winners & runners.

Number of Participants: 101

Outcomes:

- Students meets helps to develop competitive spirit among them self's.
- Confidence levels of the students will be boosted.
- Better understanding of learning process is being achieved.

Convenor: Dr.T.S.Ravi Kiran & Prof. G.Krishna Mohan			Co convenors: Ms. K.Priya & Mr.G.Samrat Krishna		
Members: Mrs.A.Kavitha, Ms.R.Jayamma, Mr.S.Tulasi Prasad, Mrs.K.Raja Sree and Mrs.K.Sirisha					
Event	Faculty Coordinator	Reg.No	Name	Programme	Winners/ Runners
Technical Quiz	Mr.G.Samrat Krishna & Ms.K.Priya	21DSC07	M.Sneha	M.Sc.(Computational Data Science)	Winners
		21DSC08	M.B.J.N.Lalitha Durga	M.Sc.(Computational Data Science)	
		21DSC20	Kuvvarapu Divya	M.Sc.(Computational Data Science)	
		21CSC21	K.Anjan Kumar	M.Sc.(Computer Science)	Runners
		21CSC07	G.Ravi Chandra Varma	M.Sc.(Computer Science)	
21CSC02	D.Tulasi Krishna	M.Sc.(Computer Science)			
Paper Presentation	Ms.R.Jayamma	21CSC07	G.Ravi Chandra Varma	M.Sc.(Computer Science)	First Prize
		21MCA59	G.Priyanaka	M.C.A	Second Prize
		21CSC06	D.Sri Naga Prasanna	M.Sc.(Computer Science)	Third Prize
Coding & Decoding	Mr.S.Tulasi Prasad & Mrs.K.Sirisha	21MCA61	K.D.S. Chandra	M.C.A	Winners
		21MCA20	SK Ameer Sohel	M.C.A	
		21DSC07	M.Snehs	M.Sc.(Computational Data Science)	Runners
		21DSC07	M.B.J.N. Lalitha Durga	M.Sc.(Computational Data Science)	
Mr. & Ms. Saviskara	Mrs. K.Rajasree Mobile: 8074784526	21DSC21	K.R.R.Sai Tarun	M.Sc.(Computational Data Science)	Winner
		21CSC38	B.Revathi	M.Sc.(Computer Science)	Runner





**P.B.SIDDHARTHA COLLEGE OF ARTS & SCIENCE :: DEPARTMENT OF COMPUTER SCIENCE
SHIKSHAK PARV (TEACHERS DAY) COMPETITIONS
5th September 2022 to 7th September 2022**

- The Department of Computer Science organized competitions for students of MCA, M.Sc.(Computer Science), M.Sc.(Computational Data Science) to celebrate **Shikshak Parv (Teacher's Day)** as per instructions given by UGC from **5th September 2022 to 7th September 2022** in the college. Students participated actively in the events **Essay Writing, Elocution, Poster Making, Powerpoint Presentation** and made this event a success.

Objectives:

- To inculcate *Competitive Spirit* among the students.
- To provide common platform to exhibit their *Skills* and *Talent*.

Outcome:

Students can improve *Competitive Spirit*.

Students can develop *Creative Thinking* and *Skills* to face the competitive world.

Event Coordinators:

1. Dr.T.S.Ravi Kiran, HoD, Department of Computer Science
2. Prof.G.Krishna Mohan, HoD, Computational Data Science

A. Essay Writing competition in the theme **“Role of Teachers in Nurturing Young Minds”** was held on **5th September 2022** from 2P.M to 3 P.M. 62 Students participated in essay writing.

The winners in this competition are

1. D.Likitha Sri-21MCA01-M.C.A
2. K.Naga Jyotsna - 21DSC17-M.Sc.(Computational Data Science)
3. K.Krishna Sri Varsha-21CSC19-M.Sc.(Computer Science)

Teacher Coordinator: Ms.K.Priya, Assistant Professor, Department of Computer Science



B. Elocution competition was held on 06th September on the theme **“Role of Teachers in Nation Building”** from 2P.M to 3 P.M. .36 students participated in the competition.

The winners in this competition are

1. K.Anjan Kumar-21CSC24-M.Sc.(Computer Science)
2. Sk.Ameer Sohail-21MCA20-M.C.A
3. R.Durga Bhavani-21DSC13- M.Sc.(Computational Data Science)

Teacher Coordinators: 1. Mrs.A.Kavitha, Assistant Professor, Department of Computer Science.
2. K.Sirisha, Assistant Professor, Department of Computer Science.



C. Poster Making competition was held on 07th September 2022 on the theme **“Contribution of Teachers in Indian Knowledge System”** from 2 P.M to 3 P.M. 09 students participated in the competition.

The winners in this competition are

1. i. A. Prasanna Kumar-21MCA51-M.C.A
ii. D.Vamsi Krishna - 21MCA35-M.C.A
2. i.Ch. Vinay-21MCA19-M.C.A
ii. K.Sai Kumar -21MCA48-M.C.A

Teacher Coordinator: Mrs.K.Raja Sree, Assistant Professor, Department of Computer Science



D. Powerpoint Presentation competition was held on 07th September 2022 on the theme **“Contribution of Teachers in Indian Knowledge System”** from 2 P.M to 3 P.M. 03 students participated in the competition.

The winners in this competition are

1. i. G.S. Ravi Verma-21CSC07-M.Sc.(Computer Science)
ii. D. Bhavani Shankar-21CSC37- M.Sc.(Computer Science)

Teacher Coordinator: Ms.R.Jayamma, Assistant Professor, Department of Computer Science





P.B. Siddhartha College of Arts & Science :: Department of Computer Science
Workshop on “MIT App Inventor (Android)”
P.B. Siddhartha College of Arts & Science
From 6th September 2022 to 8th September for MCA, M.Sc.(Computer Science) and
M.Sc.(Computational Data Science) Students

Objective: To train the students to develop Prototypes and Mini Projects using MIT App Inventor.

The Department of Computer Science, P. B. Siddhartha College of Arts & Science had organized Workshop on “MIT App Inventor” on the occasion of Sikshak Parv from 6th September 2022 to 8th September for 2021-2022 batch students of M.C.A, M.Sc.(Computer Science), M.Sc(Computational Data Science). Mr. S. Tulasi Prasad, Assistant Professor, Department of Computer Science, P. B. Siddhartha College of Arts & Science was the resource person.

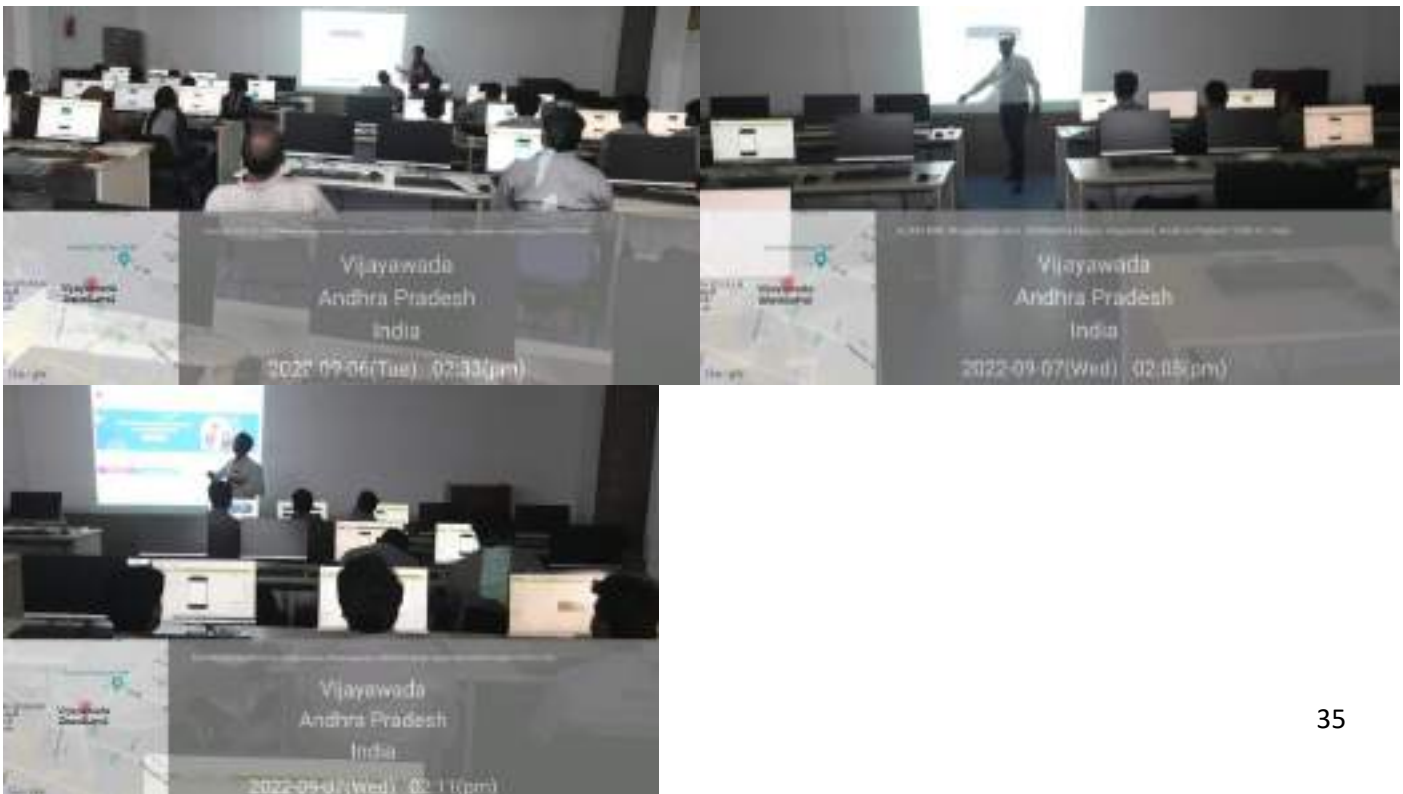
Number of Students Attended: 29

Outcome of Seminar: Students were able to learn about MIT App Inventor (Android) and developed Prototypes.

Schedule	
Day	Topics Covered
Day 1	Introduction to Android and MIT App Inventor, Developing Prototype, Basic App using Buttons and Labels
Day 2	Creating App by using Web View, Connect our developed Website or existing Website with Web View.
	Creating Multiple Screens and provide communication between them. Create Age Calculation App by using Date Picker Dialog.
Day 3	Creating Sliding Gallery App.
	Creating Speech Converter App by using Speech Recognizer and Translators.
	Creating App playing Video songs by using Video Player in Media Resources.
	Creating App Playing Audio Songs by using Audio Player in Media Resources. Creating Small Animation App Car Object Moving from Left to Right.

Resource Person	Signature
Mr. S. Tulasi Prasad, Assistant Professor, Department of Computer Science, P. B. Siddhartha College of Art & Science, Vijayawada. Mobile: 9985762476 Email: stulasiprasad@pbsiddhartha.ac.in	

Event Coordinators	Signature
Dr. T. S. Ravi Kiran, HoD, Department of Computer Science	
Prof. G. Krishna Mohan, HoD, Department of Computational Data Science	





P.B.Siddhartha College of Arts & Science :: Department of Computer Science
“Workshop on IOT” on the eve of Sikshak Parv from
6th September 2022 to 8th September 2022 for 2021-2022 batch students of M.C.A,
M.Sc.(Computer Science), M.Sc.(Computational Data Science)

Objective: To train the students to develop Prototypes and Mini Projects using IoT.

The Department of Computer Science, P.B.Siddhartha College of Arts & Science had organized “Workshop on IoT” on the occasion of Sikshak Parv from 6th September 2022 to 8th September 2022 for 2021-2022 batch students of M.C.A, M.Sc.(Computer Science), M.Sc.(Computational Data Science).

Mr. G.Samrat Krishna, Assistant Professor, Department of Computer Science, P.B.Siddhartha College of Arts & Science was the resource person.

Number of Students Attended: 9

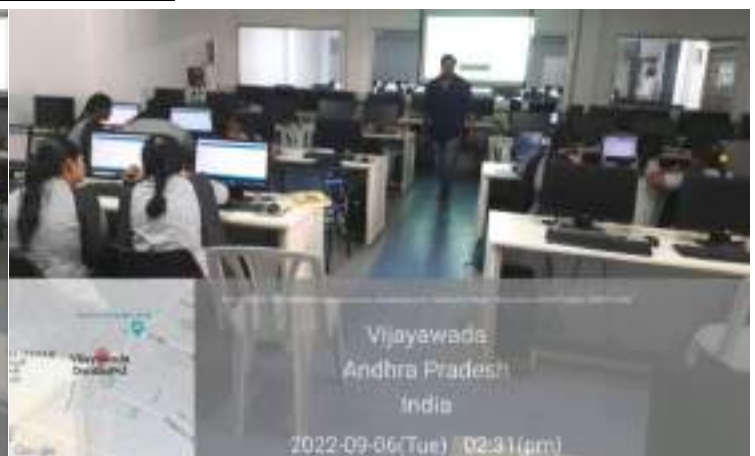
Outcome of Seminar:

- Students were able to learn about interfacing *Arduino IDE*, *Connecting Sensors to Arduino* and *develop Prototypes*.

Day	Topics Covered
Day 1	Introduction to IoT, Using Simulation for developing IoT Prototypes.
Day 2	Arduino Pin Diagram, Arduino IDE Installation, Blinking LED, Connecting using IR Sensor.
	Connecting and using IR Sensor for LED bulb on/off. Connecting and using PIR Sensor for <i>detecting Human Movements</i> and <i>Displaying the Output in Serial Monitor</i> .
Day 3	Using <i>Alcohol Sensor</i> to <i>Measure the levels of Alcohol</i> and identifying the <i>Levels of Alcohol</i> from breathe and identifying a person’s drunk state.
	Installing <i>Node.js</i> and installing <i>Node Red</i> .
	Connecting DHT11 Sensor for measuring the <i>Temperature</i> and <i>Humidity</i> in the environment.
	Displaying the values of <i>Temperature</i> and <i>Humidity</i> in serial monitor. Developing a Dashboard for <i>DHT11 Sensor</i> and visualizing the values.

Resource Person
Mr. G.Samrat Krishna, Assistant Professor, Department of Computer Science, P.B.Siddhartha College of Art & Science, Vijayawada. Mobile: 9177937461 Email: gsamratkrishna@pbsiddhartha.ac.in

Event Coordinators
Dr.T.S.Ravi Kiran
Prof.G.Krishna Mohan





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

Workshop on “Technical Report Writing” on the eve of Sikshak Parv from 6th September 2022 to 8th September 2022 for 2021-2022 batch students of M.C.A, M.Sc.(Computer Science), M.Sc.(Computational Data Science)

Objectives:

- To encourage the students to write Research Articles.
- To train the students to write IEEE research article on Latest Technologies for Information System.

The Department of Computer Science, P.B.Siddhartha College of Arts & Science had organized Workshop on “Technical Report Writing” on the occasion of Sikshak Parv from 6th September 2022 to 8th September 2022 for 2021-2022 batch students of M.C.A, M.Sc.(Computer Science), M.Sc.(Computational Data Science). Dr.T.S.Ravi Kiran, Assistant Professor & HoD, Department of Computer Science of Arts & Science was the resource person.

Number of Students Participated: 7

Outcome of Seminar:

- Students wrote a research article “Security Challenges and Measures of IoT Devices” and submitted to IEEE Conference ICRTAC-2022 through easy chair on 21st September 2022.

Authors:

Authors:

1. Dr.Srinivasa Ravi Kiran.T, HoD, Department of Computer Science, P.B.Siddhartha College of Arts & Science, Vijayawada, India, tsravikiran@pbsiddhartha.ac.in
2. Salma Begum, Student, M.Sc.(Computer Scienc), Department of Computer Science, P.B.Siddhartha College of Arts & Science, Vijayawada, India, begumsalmab@gmail.com
3. Shanthi Priya Dasari, Student, M.Sc.(Computational Data Scienc), Department of Computer Science, P.B.Siddhartha College of Arts & Science, Vijayawada, India, santhipriya.5015@gmail.com

Event coordinators:

1. Dr.T.S.Ravi Kiran, HoD, Department of Computer Science
2. Prof. G.Krishna Mohan, HoD, Department of Computational Data Science

Day	Topics Covered
Day 1	<i>Problem Identification, Formulation of Solution.</i>
	<i>Preparation of Abstract, Proposed Work and Results and Analysis.</i>
Day 2	<i>Preparation of Introduction, Related Work.</i>
Day 3	<i>Preparation of Conclusion & Future Scope, References and Submission of Article to IEEE conference ICRTAC-2022 through easy chair.</i>

Resource Person
Dr. T.S.Ravi Kiran, Assistant Professor, Department of Computer Science, P.B.Siddhartha College of Art & Science, Vijayawada. Mobile: 9441176980 Email: tsravikiran@pbsiddhartha.ac.in

09/09, 11:38 AM

Date: ICRTAC-2022-submission 7114



Dr Ravi Kiran TB <ksravirat@gmail.com>

ICRTAC-2022 submission 7114

ICRTAC-2022 <icrtac2022@easychair.org>
To: "Dr.Srinivasa Ravi Kiran T" <ksravirat@gmail.com>

Wed, Sep 21, 2022 at 4:54 PM

Dear authors,

We received your submission to ICRTAC-2022 (International Conference on Recent Trends in Advanced Computing (ICRTAC-2022)):

Authors : Dr.Srinivasa Ravi Kiran.T, Salma Begum and Shanthi Priya Dasari
Title : Security Challenges and Measures of IoT Devices and Its Networks
Number : 7114

The submission was uploaded by Srinivasarevikiran Turmala <ksravirat@gmail.com>. You can access it via the ICRTAC-2022 EasyChair Web page

<https://easychair.org/conferences/?conf=icrtac2022>

Thank you for submitting to ICRTAC-2022.

Best regards,
EasyChair for ICRTAC-2022.





**P.B.Siddhartha College of Arts & Science :: Department of Computer Science
Seminar on “Data Management using Web” on 17th September 2022
for 2021-2022 batch students of M.C.A, M.Sc.(Computer Science), M.Sc.(Computational Data Science)**

Objective: To create awareness among students on data Management.

The Department of Computer Science, P.B.Siddhartha College of Arts & Science had organized a Seminar on “Data Management using Web” on 17th September 2022 for M.C.A, M.Sc.(Computer Science), M.Sc.(Computational Data Science) for the batch of students admitted during the academic year 2021-2022. Mr.Prakash Kaza, Founder & CEO, Saadruso Technologies, Hyderabad was the resource person.

Number of Students Attended: 112

Outcome of Seminar: Students were able to learn the basics about how the data can be managed using various tools like Flutter, Go Lang, and Angular JS.

Topics Covered:

- The importance of Data Management.
- Content creation and various platforms for content creation and management.
- Mobile application development using Flutter and the advantages of using Flutter a cross platform mobile application development tool.
- Using of Go Land developed by Google and its Job Opportunities.
- The dataflow from Web to the Applications and from Applications to Web.
- Using of Angular JS in Web Development and various job and internship opportunities in Angular JS.

Event coordinators:

1. Dr.T.S.Ravi Kiran, HoD, Department of Computer Science
2. Prof. G.Krishna Mohan, HoD, Department of Computational Data Science

Resource Person

Resource Person: Mr.Prakash Kaza, Founder & CEO, Saadruso Technologies,
28,Doyens Lakeside Township, Seri Lingampally, Hyderabad- 500019
URL: www.saadruso.com, Email: prakash@saadruso.com Mobile: 9663106752

టెక్నాలజీని వినియోగించుకోవాలి

మొగ్గలాజపురం(విజయవాడ తూర్పు): సేటి ప్రపంచంలో సాంకేతిక పరిజ్ఞానం కరవేగంగా మారుతోంది. మారుతున్న టెక్నాలజీని యువత ఆందుకోవాలని సాద్రుసో టెక్నాలజీస్ సీఈవో కాజా ప్రకాష్ అన్నారు. పీటీ సిద్ధార్థ కళాశాల కంప్యూటర్ సైన్స్ పీజీ విభాగం ఆధ్వర్యంలో కనివారం కళాశాల ఆవరణలోని వెబినార్ హాలులో డేటా మేనేజ్మెంట్ యూజింగ్ వెబ్ అనే అంశంపై సదస్సు జరిగింది. ప్రకాష్ మాట్లాడుతూ వినియోగదారులకు అవసరమైన సమాచారాన్ని కేవలం ఎనిమిది సెకన్ల వ్యవధిలో వారికి అర్థమయ్యే విధంగా పూర్తి సమాచారాన్ని ప్రకటనలో యాపిలో పంపడానికి అవసరమైన సాంకేతిక పరిజ్ఞానంపై విద్యార్థులకు వివరించారు. ప్రకటనలు రూపొందించడంలో టీసుకోవాల్సిన మెటరువలను ఆయన తెలియజేశారు. షుల్జర్ మొబైల్ యూజ్ డెవలప్మెంట్ సాఫ్ట్వేర్, గో లాంగ్



మాట్లాడుతున్న కాజా ప్రకాష్

అనే గూగుల్ సాఫ్ట్వేర్లను నేర్చుకోవడం ద్వారా ఉద్యోగ అవకాశాలు విరివిగా ఉన్నాయన్నారు. కళాశాల డైరెక్టర్ వేమూరి బాబారావు, డీన్ రాజేష్ జంపాల, ప్రెసిడెంట్ ఎం.రమేష్, కంప్యూటర్ సైన్స్ విభాగాధిపతి డాక్టర్ టీఎస్ రవికిరణ్, డేటా సైన్స్ విభాగాధిపతి కృష్ణమోహన్ తదితరులు పాల్గొన్నారు.





Student Achievement in Student Meet Samiksha 2022, Andhra Loyola College 23rd and 24th September 2022

- Savaram Rani (Roll No: 21DSC18) of M.Sc.(Computational Data Science) has participate in Samiksha 2022 an IT event by the Department of MCA held at Andhra Loyola College on 23rd and 24th September and has secured Firt Place in **Web Designing** Event.



- Kuna Anjan Kumar (Roll No: 21CS24) of M.Sc.(Computer Science) has participate in Samiksha 2022 an IT event by the Department of MCA held at Andhra Loyola College on 23rd and 24th September and has secured Second Place in Best from Waste.





**P.B.Siddhartha College of Arts & Science::Department of Computer Science &Neighborhood Club
24th September 2022, Neighbourhood Activity, Blankets Distribution**

- The Department Computer Science along with *Neighborhood Club* jointly conducted a Neighborhood Activity in which students of III BCA and ICSCS distributed 75 blankets to homeless people on 24/09/2022 near *P.B.Siddhartha College of Arts & Science, Benz Circle and Government Hospital.*

Students Participated		
Register Number	Name	Section
203979	K.Jagadeesh	III BCA
203925	M.Sunil	III BCA
203911	T.Avinash	III BCA
203975	G.Ganesh	III BCA

Faculty Members Participated	
Name of the Faculty	Department
Dr.G.Krishna Mohan	HoD, Computational Data Science
Mr.I.V.Rao	HoD, UG Mathematics & Clubs Coordinator
Mr. R.Gopi	Assistant Professor & Club Convener
Mr.K.Sudher	Assistant Professor, Computer Science





**P.B.Siddhartha College of Arts & Science :: Department of Computer Science
Distinguished Alumni Talk on IT Career Pathways, 13th October 2022, 11 A.M to 12.30 P.M**

Objective: To create awareness among students on IT Career Pathways.

The Department of Computer Science, P.B.Siddhartha College of Arts & Science had organized a “Distinguished Alumni Talk on IT Career Pathways”, 13th October 2022, 11 A.M to 12.30 P.M for B.C.A, B.Sc.(M S DS), B.Sc.(CSCS), B.Sc.(M S CS) and M.Sc.(Computational Data Science). Balakrishna Jammula, Senior Software Engineer, Microsoft, Seattle, USA was the Resource Person. He studied B.Sc.(M P CS) during the period 2003 to 2006 in P.B.Siddhartha College of Arts & Science.

In his talk he made students to understand about IT career. He sensitized students about *Product Based Companies* and *Service Based Companies* in IT sector. He guided students that they can choose either *Product Based* or *Service Based* companies and according to that they have to upgrade their skills. He explains the job roles of *Cloud Architect*, *Data Analyst*, *Testing Engineer* and *Business Analyst*. He discussed about STAR (Situation, Task, Action and Result) method and how to apply STAR method while making important decisions. Finally, he ended sessions by interacting with students through question and answers.

Number of Students Attended: 166

Outcome: Students were able to understand various career paths and the importance of upgrading their skills to meet the requirements of the industry.

Resource Person: Balakrishna Jammula, Senior Software Engineer, Microsoft, Seattle, USA. (Studied B.Sc.(M P CS) during the period 2003 to 2006 in P.B.Siddhartha College of Arts & Science)

Email: jammula.balakrishna@gmail.com Mobile: +91 9677178882, +1 (704) 430-4535

Event Coordinators: 1.Mr.Kavuri Sridhar, TPO & Assistant Professor, Dept of Computer Science.

2. Mr.Sudhir.K, Assistant Professor, Dept of Computer Science.

13th October 2022
DISTINGUISHED ALUMNI TALK SERIES - 1
On
IT career pathways

11:00 AM to 12:30 PM

VENUE:
Webinar hall,
Near Central library

SPEAKER:
Mr. Balakrishna Jammula,
Senior Software Engineer,
Microsoft, Seattle, USA
B.Sc. MPCS (2003-2006)
P.B. Siddhartha College of
Arts & Science, Vijayawada

GIS: G14X+85W, Gudavallivari St, Mogalrajapuram, Sidhartha Nagar, Christarapuram, Vijayawada, Andhra Pradesh 520010, India
Latitude 16.5057609° Longitude 80.6479874°
Local 11:29:34 AM Altitude 8.66 meters
GMT 05:59:34 AM Thursday, 13.10.2022

Room No.228, P.B. Siddhartha college campus, Mogalrajapuram, Sidhartha Nagar, Vijayawada, Andhra Pradesh 520010, India
Latitude 16.5056506° Longitude 80.6481905°
Local 11:50:04 AM Altitude 8.66 meters
GMT 06:20:04 AM Thursday, 13.10.2022

NVKR Towers, Siddhartha College Rd, Revenue Colony Park, Sidhartha Nagar, Labbipet, Vijayawada, Andhra Pradesh 520010, India
Latitude 16.5057215° Longitude 80.6480373°
Local 12:58:20 PM Altitude 8.66 meters
GMT 07:28:20 AM Thursday, 13.10.2022



P.B.Siddhartha College of Arts & Science:: Department of Computer Science
15th October 2022, 3 P.M to 4.30 P.M
Awareness Program on “Importance of Communication Skills”

Objective: To explain the importance of Communication Skills for facing the Interviews.

The Department of Computer Science, P.B.Siddhartha College of Arts & Science had organized a Awareness Program on “**Importance of Communication Skills**” on **15th October 2022, 3 P.M to 4.30 P.M** for Post Graduate students of M.C.A & M.Sc.(Computational Data Science). Mr.Vangala Raghava, Trainer for Communication Skills Development was the resource person.

He explained

- The importance of Communication Skills.
- Importance of Communication Skills for facing the Interviews.
- Body Language improvement.
- Different ways practicing the Communication Skills.

Number of Post Graduate Students Attended: 72

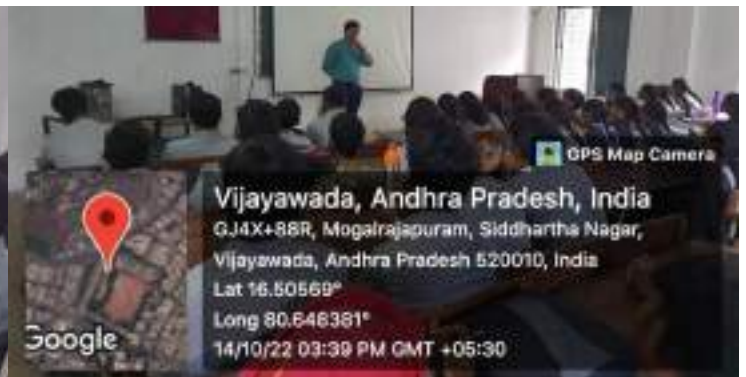
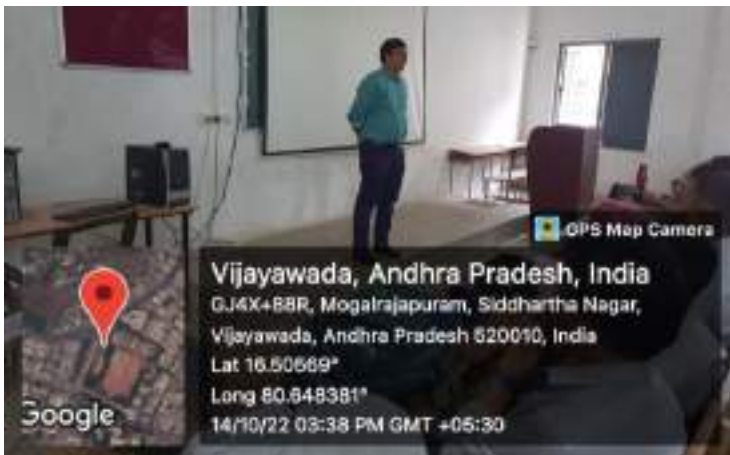
- **Outcome:** Students are able to gain awareness about the importance of Communication Skills for facing the interviews.

Resource Person: Mr.Vangala Raghava, Trainer for Communication Skills Development

Mobile: 9494363624 Email: raghava.vangala1@gmail.com

Event Coordinators:

1. Dr.T.S.Ravi Kiran, HOD, Dept of Computer Science
2. Mr.S.Tulasi Prasad, Assistant Professor, Department of Computer Science
3. Mr.G.Samrat Krishna, Assistant Professor, Department of Computer Science





Industry Institution Interaction on “Networking & Cyber Security”

Objective: To provide awareness of Networking & Cyber Security.

The Department of Computer Science, P. B. Siddhartha College of Arts & Science had organized a Industry Institution on “**Networking & Cyber Security**” on **18th October 2022, 03.00 P.M to 4.00 P.M** for Post Graduate students of M.C.A & M.Sc.(Computer Science). Ms. Chaitanya Rani, Managing Director, SPYPRO Security Solutions Pvt. Ltd. was the resource person.

She explained

- The importance of Networking.
- Importance of Cyber Security in real world.
- Opportunities available on Networking & Cyber Security.
- Different types of Hackers.

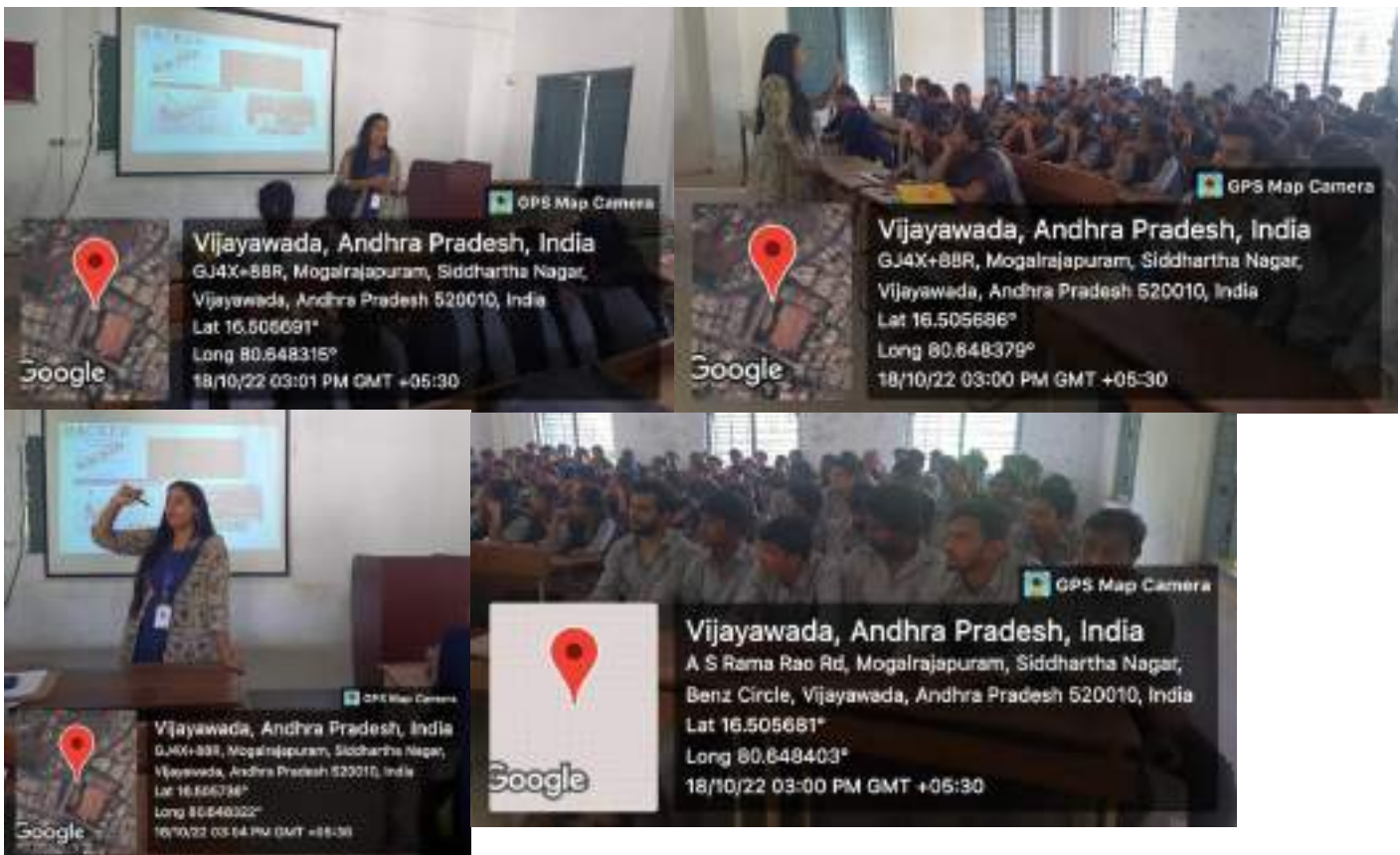
Number of Post Graduate Students Attended: 79

Outcome of Seminar: Students are able to gain awareness about the importance of Networking & Cyber Security.

Resource Person: Ms. Chaitanya Rani, Managing Director, SPYPRO Security Solutions Pvt. Ltd., Vijayawada.
Mobile: 8182881234,8182891234 Email: chaitanya@spyprosecuritysolutions.com,
info@spyprosecuritysolutions.com.

Event Coordinators:

4. Dr. T. S. Ravi Kiran, HOD, Department of Computer Science
5. Mr. S. Tulasi Prasad, Assistant Professor, Department of Computer Science
6. Mr. G. Samrat Krishna, Assistant Professor, Department of Computer Science



MOU'S & COLLABORATIONS, 2021-2022



P.B.Siddhartha College of Arts & Science :: Department of Computer Science
MOU between P.B.Siddhartha College of Arts & Science & Blackbucks Engineering Pvt.Ltd., Hyderabad, 19th January 2022



BLACKBUCK ENGINEERS

The Department of Computer Science, P.B.Siddhartha College of Arts & Science has Memorandum of Understanding (MOU) with Blackbucks Engineering Pvt.Ltd., Hyderabad on 19th January 2022 to setup State-of-the-Art Intelligence (CoE) in Artificial Intelligence.

Benefits of MOU:

Technical staff of Blackbucks Engineering Pvt.Ltd. will

- Actively engage to help the delivery of the Internship and Placement to students as per AICTE/UGC/APSCHE Internship Policy for disseminating the Internship opportunities available with them.
- Share their skills and knowledge with staff and students.
- Give valuable inputs in *Teaching / Training* methodology and suitably customize the curriculum.
- Give an insight into the latest *Developments / Requirements* of the industries and permit the *Faculty and Students* to visit its group companies and also involve in *Industrial Training Programs*.
- Will provide *Technical Staff* to assists the students and staff to conduct *Hands on Workshops / FDP's* on recent technologies.
- Will carry out the joint research activities in Artificial Intelligence and Machine Learning.



సిద్ధార్థ కళాశాలతో బ్లాక్ బక్ ఇంజనీర్స్ సంస్థ ఒప్పందం

మొదటిసారిగా విజయవాడలో జరిగిన ఒప్పందం సంతకం కార్యక్రమం. దీనిలో పాల్గొన్నవారు: కళాశాల ప్రధానాధికారి, ఉపాధ్యక్షుడు, విద్యార్థులు, బ్లాక్ బక్ ఇంజనీర్స్ సీనియర్ అధికారులు మరియు విద్యార్థులు.

ఆంధ్రప్రదేశ్ లోని విజయవాడలోని పి.బి.సి.సి.ఎస్.సి. కళాశాలలో బ్లాక్ బక్ ఇంజనీర్స్ సంస్థతో ఒప్పందం సంతకం చేయడం. ఈ సందర్భంగా కళాశాల ప్రధానాధికారి, ఉపాధ్యక్షుడు, విద్యార్థులు, బ్లాక్ బక్ ఇంజనీర్స్ సీనియర్ అధికారులు మరియు విద్యార్థులు పాల్గొన్నారు.

ఆంధ్రప్రదేశ్ లోని విజయవాడలోని పి.బి.సి.సి.ఎస్.సి. కళాశాలలో బ్లాక్ బక్ ఇంజనీర్స్ సంస్థతో ఒప్పందం సంతకం చేయడం.

సాకి Thu, 28 January 2022
<https://paper.sakshi.com/c/65788468>

పి.బి.సి.సి.ఎస్.సి. కళాశాలతో బ్లాక్ బక్ ఇంజనీర్స్ సంస్థ ఒప్పందం

విజయవాడలోని పి.బి.సి.సి.ఎస్.సి. కళాశాలలో బ్లాక్ బక్ ఇంజనీర్స్ సంస్థతో ఒప్పందం సంతకం చేయడం. ఈ సందర్భంగా కళాశాల ప్రధానాధికారి, ఉపాధ్యక్షుడు, విద్యార్థులు, బ్లాక్ బక్ ఇంజనీర్స్ సీనియర్ అధికారులు మరియు విద్యార్థులు పాల్గొన్నారు.

సాకి Thu, 28 January 2022
<https://paper.sakshi.com/c/65788468>

Siddhartha college establishes Centre of Excellence in AI

The Institute signs MoU with Hyderabad-based IT firm Blackbuck Engineers Pvt. Ltd.

P.B. Siddhartha College of Arts and Science in the city on Wednesday signed a Memorandum of Understanding (MoU) with Hyderabad-based IT firm Blackbuck Engineers Pvt. Ltd. to establish Centre of Excellence (CoE) in Artificial Intelligence.

In a ceremony, college Principal M. Anand and it also the first non-organising institution to launch the facility.

As part of the collaboration, experts from the IT firm will train the students and faculty of the college in emerging technologies like AI/ML, Deep Learning and Machine Learning etc.

CEO of Blackbuck Engineers Anand said, "This MoU partnership aims to leverage expertise in the field. The CoE would promote research by creating cutting-edge research in AI and Machine Learning relevant to industry and academia, foster strong industry-academia cooperation for AI solutions and create impactful projects with industry and government and state-of-the-art AI courses, training and technology upgrading for students and staff through programs for research."

The MoU was signed by Blackbuck Engineers, Hyderabad and P.B. Siddhartha College of Arts and Science, Vijayawada.



Collaboration between P.B.Siddhartha College of Arts & Science and EduSkills Foundation for period April 2022 to April 2027

The Department of Computer Science, P.B.Siddhartha College of Arts & Science has associated with EduSkills Foundation and got Industry Centre of Excellence for the period April 2022 to April 2027.

As a part of initiative, institution got industry collaborations of *AWS Academy, Red Hat Academy, Microchip Academy, Palo Alto Networks, Cyber Security Academy, Celonis Academy, Blue Prism University* and *Juniper Networks Academy*. Alumni Association sponsored this skilling initiative by subscribing to EduSkills Platform for Five Years.

Benefits:

- Empower students with in-demand IT skills and making them employable.
- Fill the gap between Academia and Industry by ensuring world class curriculum access to our faculties and students.

INDUSTRY CENTER OF EXCELLENCE

aws academy MICROCHIP Academic Program blueprism University celonis

RED HAT ACADEMY paloalto Cybersecurity Academy JUNIPER NETWORKS | Cloud & Automation Academy

 Parvathani Brahmamya Siddhartha College of Arts & Science
Andhra Pradesh

in association with

 **EduSkills**
Nation Building Through Skills





P.B.Siddhartha College of Arts & Science :: Department of Computer Science MOU between P.B.Siddhartha College of Arts & Science and EduSkills Foundation for period July 2022 to March 2027

The Department of Computer Science, P.B.Siddhartha College of Arts & Science has Memorandum of Understanding (MOU) with EduSkills Foundation on **07th July 2022**.

Benefits of MOU:

- Our college is recognized as EduSkills Industry Centre of Excellence.
- As a part of initiative, institution got industry collaborations of *AWS Academy, Red Hat Academy, Microchip Academy, Palo Alto Networks, Cyber Security Academy, Celonis Academy, Blue Prism University and Juniper Networks Academy*.
- As part of MOU, Faculty members are being trained on latest technologies and awarded certifications after successful completion of training. The trained faculty members are recognized as to train the students on latest technologies.
- Our institution is offering *Virtual Internships* recognized by AICTE offered by EduSkills Foundation.
- After successful completion of internships by the students, EduSkills provide job opportunities to the students.
- Empower students with in-demand IT skills and making them employable.
- Fill the gap between Academia and Industry by ensuring world class curriculum access to our faculties and students.





P.B.Siddhartha College of Arts & Science :: Department of Computer Science
MOU between P.B.Siddhartha College of Arts & Science & TechXR Innovation Private
Limited, Bhopal, Madhya Pradesh, 20th July 2022



The Department of Computer Science, P.B.Siddhartha College of Arts & Science has Memorandum of Understanding (MOU) with **TechXR Innovation Private Limited, Bhopal, Madhya Pradesh** on 20th July 2022.

Benefits of MOU:

Technical staff of TechXR Innovation Private Limited will

- Offer *Free Certification Courses for Students and Staff.*
- Conduct *Game Development Work Shops.*
- Training on *3D Models Development.*
- Training on *Augmented Reality Development.*
- Conduct FDP's on *Augmented Reality and Virtual Reality Development.*

**MEMORANDUM OF UNDERSTANDING
FOR ACADEMIC PARTNERSHIP**

This Memorandum of Understanding ("MoU") is entered into between Parvathaneni Brahmamya Siddhartha College of Arts & Science (in short "Institute")
 AND
 TechXR Innovations Private Limited (in short "TechXR")
 Each a "Participant" and collectively the "Participants"

effective as of date 20-07-2022.

WHEREIN the Participants recognize the mutual benefits of academic collaboration on skill development in the broad area of Augmented and Virtual Reality (AR-VR) and allied technologies.

1. PURPOSE

The purpose of this MoU is to formalize partnerships with emphasis on:

- a) Academic partnership for offering training Program/Certification Courses for Engineering/Non-engineering Students of the Institute.
- b) Faculty development program for selected faculties of institute.
- c) Support for AR-VR laboratory/experience centre development at institute

2. SCOPE OF COOPERATION

TechXR to provide trainings, consultancy, learning resources and technical support a per terms and conditions mutually agreed upon. The Institute to circulate the details of trainings programs among interested participants and shortlist faculty for faculty development training by TechXR.

The Participants to collaborate in developing skills in AR-VR technology for student of the Institute in the following ways:

- a) TechXR shall offer selected courses free of cost to students of the INSTITUTE to spread awareness of AR-VR technology among students. TechXR will provide specific Access Code using which students can access the courses at the company's learning portal for free.
- b) The INSTITUTE shall share the Access Code with its registered students and spread awareness on the available courses
- c) The INSTITUTE will recommend up to 3 faculty members for faculty development program by TechXR.
- d) TechXR will provide all the training material, access to learning modules, AR-VR Development Kit, Doubt clearing support, project evaluation and Certificate of course for identified faculty members free-of-cost for participating INSTITUTE.

3. INFORMATION USAGE

The Participants agree not to make improper use of any information that comes to itself or its agents or representatives in the performance of services under this Agreement.

4. INTELLECTUAL PROPERTY

- i. The INSTITUTE undertakes not to cause or permit anything which may damage or endanger the intellectual property of the Company or the Company's title to it or assist or allow others to do so.
- ii. The Company undertakes not to cause or permit anything which may damage or endanger the intellectual property of the INSTITUTE or the INSTITUTE title to it or assist or allow others to do so.
- iii. The Company and the INSTITUTE undertake not to infringe the intellectual property rights of any third party during the course of this Agreement.

5. CONSTRUCTION

The headings in this Agreement are inserted for convenience only and shall not be used to define, limit or describe the scope of this Agreement or any of the obligations herein. The language in all parts of this Agreement shall be in all cases construed according to its fair meaning.

TechXR Innovations Pvt Ltd

Name
 Title
 Designation

Parvathaneni Brahmamya
 Siddhartha College of Arts & Science

Dr.M. RAMESH

PRINCIPAL

PRINCIPAL
 PARVATHANENI BRAHMAMAYA
 SIDDHARTHA COLLEGE OF ARTS & SCIENCE
 VILAYANAWADA - 820 010.



**P.B.Siddhartha College of Arts & Science :: Department of Computer Science
MOU between P.B.Siddhartha College of Arts & Science & JNCAAM (Juniper Networks Cloud
and Automation Academy Agreement, 17th August 2022**

The Department of Computer Science, P.B.Siddhartha College of Arts & Science has Memorandum of Understanding (MOU) with Blackbucks Engineering Pvt.Ltd., Hyderabad on 19th January 2026 to setup State-of-the-Art Intelligence (CoE) in Artificial Intelligence.

Benefits of MOU:

Technical staff of Blackbucks Engineering Pvt.Ltd. will

- Actively engage to help the delivery of the Internship and Placement to students as per AICTE/UGC/APSCHE Internship Policy for disseminating the Internship opportunities available with them.
- Share their skills and knowledge with staff and students.
- Give valuable inputs in *Teaching / Training* methodology and suitably customize the curriculum.
- Give an insight into the latest *Developments / Requirements* of the industries and permit the *Faculty* and *Students* to visit its group companies and also involve in *Industrial Training Programs*.
- Will provide *Technical Staff* to assists the students and staff to conduct *Hands on Workshops / FDP's* on recent technologies.
- Will carry out the joint research activities in Artificial Intelligence and Machine Learning.

MEMORANDUM OF UNDERSTANDING

BETWEEN



EduSkills Foundation ("EduSkills")

AND



Parvathaneni Brahmaya Siddhartha College of Arts & Science

FOR EDUSKILLS MEMBERSHIP PROGRAM

This Memorandum of Understanding ("MOU") is effective from the date of signatures below ("Effective Date"); hereinafter, each a "Party" or together, "the Parties". EduSkills will be referred as 'First party' and other party will be referred as 'Second party'.

The Parties have been discussing a proposed collaboration in the area of "Skill Development, IT Education and Workforce Development Programs" ("Collaboration Areas").

Now the Parties agree as follows:

A. NON-BINDING TERMS.

The Parties understand that MOU is intended only to summarize the current understanding of the parties with respect to the principal terms of the proposed collaboration.

The Parties understand that this MOU is intended only to summarize the current understanding of the Parties with respect to the Collaboration Areas and to facilitate their further discussions regarding certain objectives of the proposed partnership, as more fully described in Exhibit A, which are non-binding on the Parties. The terms and objectives set forth in Exhibit A shall be used for discussion purposes only and shall not be deemed to create any rights or obligations for or on behalf of any Party.

B. BINDING TERMS

The Parties hereby acknowledge and agree that the following subsections under this Section B (Binding Terms) shall be binding and create legal rights and obligations on the Parties.

1. Confidentiality

In this MOU "Confidential Information" means any information or data, irrespective of the form and nature thereof, that is material to the Party disclosing such information ("Discloser") to the other Party ("Recipient"), including, but not limited to technical know how, specifications, designs, models, software, techniques, drawings, processes, as well as industrial and intellectual property rights, business information, trade secrets, customer lists, financial information, process, costs, sales and marketing plans, information posted on their respective websites or any other information with the Recipient knows or reasonably ought to know is confidential, proprietary or trade secret information of the Discloser.

The Recipient shall at all times, both during the term of this MOU and for a period of at least three (3) years after its expiration or termination, keep in trust and confidence all such Confidential Information, and shall not use such Confidential Information other than for the purpose of fulfilling its obligations under this MOU, nor shall the Recipient disclose any such Confidential Information to any third party without the Disclosing Party's prior written consent. Upon termination of this MOU or written request from the Discloser, the Recipient shall, within fifteen (15) days from such termination or request, return all Confidential Information and any and all copies thereof to the Discloser, or at the Discloser's option, destroy the Confidential Information and any and all copies thereof, and certify such destruction

The obligations of confidentiality set forth herein shall not apply to information which;

- a. Was rightfully in possession of or known to the Recipient without any obligation of confidentiality prior to receiving it from the Discloser;
- b. Is, or subsequently becomes, legally and publicly available without breach of this MOU;
- c. Is rightfully obtained by the Recipient from a source other than the Discloser, without any obligation of confidentiality; or
- d. Is developed by or for the Recipient without use of the Confidential Information.

The Recipient may only disclose Confidential Information pursuant to a valid order issued by a court or governmental agency, provided that the Recipient provides the Discloser:

- a. Prior written notice of such obligation; and
- b. The opportunity to oppose such disclosure or obtain a protective order,

The Confidential Information shall remain the property of the Discloser and no license to any existing or future intellectual property rights or Confidential Information is granted or implied under this MOU.

DocuSigned by:

EduSkills Confidential



Handwritten signature

Principal
Pannatheneri Brahmajya
Vidhartha College of Arts & Science
VIJAYAWADA - 10

All Confidential Information is provided "AS IS". The Discloser shall not be liable for any inaccuracy or completeness of the Confidential Information, nor are there any express or implied representations or warranties by either party to the other, including with respect to the infringement of any intellectual property rights or any right of privacy, or any rights of third persons.

2. Scope

The scope of this MOU does not cover any development work, testing, licensing, distribution, support, sales, or maintenance. Should the Parties decide to pursue such matter that is outside the scope of this MOU, the Parties shall enter into a development, license, distribution, or other appropriate written agreement(s) accordingly.

3. Publicity

The Parties hereby agree that no press release or other public announcements regarding this MOU or any agreements contemplated thereby shall be made without prior review and written agreement signed by a duly authorized representative of the other Party.

4. Term and Termination

The Parties agree that this MOU shall be effective as of the Effective Date and shall continue in effect until the earliest occurrence of one of the following: (1) the execution of a definitive MOU or definitive agreement relating to the scope of this MOU; (2) written notice by one Party to the other of termination of this MOU; or **sixty (60) months** from the Effective Date of this MOU. Section B (including all subsections) shall survive any termination of this MOU. Upon expiry of the Term, it is the intention of the Parties to further progress the solutions initiated under this MOU towards overall achievement of the objectives and outcomes contemplated herein. Second party shall, to this extent, endeavor to continue maintaining and promoting such solutions and projects to further the objectives set forth in the MOU.

5. Limitation of Liability

Except for liability relating to either Party's breach of the other Party's confidential information or intellectual property rights, in no event shall either Party be liable to the other Party for any direct, indirect, incidental, special, punitive or consequential damages or loss of profits, lost revenue or loss of data.

Notwithstanding the foregoing, nothing in this MOU shall limit the Parties liability for bodily injury or death caused by its negligence or its liability in the tort of deceit.

6. Intellectual property rights

Each Party will retain the exclusive rights, title and ownership of all its pre-existing Intellectual Property, Confidential Information and materials (including, without limitation, proprietary ideas, sketches, diagrams, text, know-how, concepts, proofs of concepts, artwork, software, algorithms, methods, processes, identifier codes or other technology) owned or developed by such Party.

7. Governing laws and jurisdiction

The Parties shall make efforts in good faith to amicably resolve all disputes as may arise out of or in connection with this MOU. This MOU shall be subject to and governed by the laws of India and the Indian courts shall have exclusive jurisdiction over any claim arising under this MOU. Notwithstanding the foregoing, either Party may seek interim injunctive relief in any court of appropriate jurisdiction with respect to any alleged breach of such Party's intellectual property or proprietary rights.

8. Costs

Unless otherwise agreed upon in writing, each Party shall bear its own costs and expenses arising in connection with this MOU and the possible negotiations, completion and implementation of definitive Agreements if any, including but not limited to costs of experts, consultants, lawyers and travel expenses.



Praveen
Principal
Parvathumeni Brahmaya
Siddhartha College of Arts & Science
VIJAYAWADA - 85.

9. **Amendment**

This MOU may be amended at any time by the mutual written assent of the Parties.

10. **Severability.**

Should any portion of this MOU be determined to be illegal or unenforceable, the remainder of the MOU shall continue in full force and effect, and either party may renegotiate the terms affected by the severance.

IN WITNESS WHEREOF, the parties hereto have executed this MOU by persons duly authorized as of the date and year first above written.

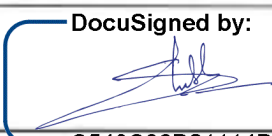


Signed for and on behalf of EduSkills Foundation	Signed for and on behalf of Parvathaneni Brahmayya Siddhartha College of Arts & Science
By:  Authorized Signatory C548C96D21114D1...	By:  Authorized Signatory 
Mr. Shubhajit Jagadev Name	Dr. M. Ramesh Name
Chief Executive Officer Designation	Principal Designation
9th April 2022 Date	9th April 2022 Date
Address for communication: EduSkills Foundation #806, DLF Cyber City, Technology Corridor, Infocity, Bhubaneswar – 7510024, Odisha, India Email: info@eduskillsfoundation.org	Address for communication: Parvathaneni Brahmayya Siddhartha College of Arts & Science, A S Rama Rao Rd, Mogalrajapuram, Siddhartha Nagar, Vijayawada, Andhra Pradesh 520010. Email: principal@pbsiddhartha.ac.in

EXHIBIT A
NON-BINDING TERMS

1. Scope and Intent

EduSkills and **Parvathaneni Brahmaya Siddhartha College of Arts & Science** have decided to work together for the purpose of expanding digital skills into higher education system through offering various world class technical programs in Networking, Cybersecurity, Cloud computing, automation, RPA and other industry 4.0 skills to their students.

2. Proposed obligations of **EduSkills**:

- To offer digital content and courses of up to 8 global academy programs to the institution.
- To offer LMS of the academy programs, where ever applicable.
- To offer branding collaterals access and usage of academy programs.
- 'Train the Trainers' to the nominated educators by the institution.
- Virtual orientation session/workshop for the institution.
- In-person/remote support for any troubleshooting needed during the onboarding process.
- To offer opportunities to participate in job fairs, seminars, conferences and any regional/national/global competitions or platforms for the students, educators and/or institution's leadership.
- EduSkills Talent Connect Program for students
- EduSkills & AICTE Internship Program for students.

3. Proposed Obligations of **Parvathaneni Brahmaya Siddhartha College of Arts & Science** :

- To create awareness for adoption and registration of technical courses from interested students.
- To nominate a point of contact who could monitor and review the program updates.
- Pay membership **fee every year**. Following year's membership fee can be incremented on nominal basis, if the need arises. **Agreement to be renewed after 5 years**.
- Institution need to bear the expense for the AWS & Red Hat Global Certification fee of faculties as its mandatory.
- Minimum 100 students commitment for each academy program every year.
- To ensure following pre-requisites to be followed by the participating colleges:
 - a. High speed broadband connectivity, computer labs for relevant courses and classroom IT set-up for all participating institutions.
 - b. Identify upto 2 (Two) Educators with required qualification like Engineers/MCA in Computer Science/IT/Electronics, etc. or experienced diploma holders to receive Training of Trainers for each academy program.

Please Note: This fee applies on institutions. EduSkills will not charge any fee from the students. Institutions may enroll and extend benefit to as many students they want. No capping on number of students.

DocuSigned by:



EduSkills Confidential


Principal
Parvathaneni Brahmaya
Siddhartha College of Arts & Science
VIJAYAWADA - 520



MEMORANDUM OF UNDERSTANDING

**Parvathaneni Brahmaya Siddhartha College of Arts
and Science**

and

Blackbuck Engineers Pvt. Ltd.

ALAN M TURING CENTER OF EXCELLENCE

A joint initiative of International Institute of Digital Technologies and Blackbuck Engineers Pvt. Ltd.

To bring premier and practical knowledge closer to students and professionals. This, bridging the gap, we do by bringing industry to students

This **Memorandum of Understanding ("MoU")** is executed in **January 2022** between:

Blackbuck Engineers Pvt. Ltd. registered at 5-124/1, Chandanagar, Hyderabad and operating at 3rd floor, Jubilee Square, Road No:36, Jubilee Hills, Hyderabad, Telangana - 500033 as FIRST PARTY, hereafter referred as **Blackbuck**.

AND

Parvathaneni Brahmayya Siddhartha College of Arts & Science, Siddhartha Nagar, Vijayawada-520 010, Andhra Pradesh, India. as SECOND PARTY hereafter referred to as Institution.

Blackbuck and Institution are individually referred as "party" and together as "parties"

WHEREAS

1. The Institution was established in **1975**, with a vision and mission of imparting quality technical education to students.
2. International Institute of Digital Technologies and Blackbuck jointly excel in the following capabilities:
 - i. Research capabilities
 - ii. Innovative initiatives
 - iii. Faculty & Student Development
 - iv. Infrastructure and resources
3. Blackbuck is an Edtech organization into both technology & management.
4. Institution and Blackbucks together partner to deliver Advanced Skills in Emerging Technologies and provide industry focus to students.

NOW THE PARTIES HERETO AGREE AS UNDER

ARTICLE 1: SCOPE OF THE MoU

1. This document covers an action plan for conducting programs for the Institution that are related to establishment of the Alan M Turing Centre of Excellence for Emerging Technologies.
2. The objective of this MoU is to set out the scope within which the Institution and Blackbuck will jointly explore and work towards achieving the objectives and matters described in this MOU. Each Party shall have the right, in its sole discretion, to determine how it will fulfil its obligations as in ARTICLE 2, ARTICLE 3 and ARTICLE 4

ARTICLE 2: ROLES AND RESPONSIBILITIES OF BLACKBUCK

1. Blackbuck shall offer 200-hours of program in Emerging Technologies:
 - a. Level 1 - Foundation Suite (70 hours)
 - b. Level 2 - AI/ML/DS (80 hours)
 - c. Placement and Higher Education Program (50 hours) with Mini Project
2. Provide Certifications to the students from IIDT and Blackbucks
3. Implement LMS and TAPTAP App for the students for improving programming and employability skills
4. Complete a project for the students who are enrolled into the course

ARTICLE 3: ROLES AND RESPONSIBILITIES OF THE INSTITUTION

1. Assign lead faculty & academic researchers
2. Have regular meetings to give feedback and make sure the program runs effectively and Monitor class schedules
3. Ensure student participation in webinars, hackathons

ARTICLE 4: JOINT RESPONSIBILITIES

1. Both the parties can review and assess the quality of the courses or programs as and when required.
2. Both the parties are collectively responsible to create an ecosystem for Incubation, Startups, and Industry Interaction.
3. Both parties shall agree to fulfil their roles and responsibilities with integrity in an ethical manner.

ARTICLE 5: COMMERCIAL TERMS

1	Students in 5th Semester will pursue the course and submit a project to the institution	3000 plus GST per student
2	Implementation of LMS and TAPTAP to the enrolled students	300 plus GST per semester per student
3	Conducting monthly aptitude tests, webinars, mock interviews and hackathons	-
4	Provide opportunities to the students	-

ARTICLE 6: LEGAL TERMS

1. Both the parties can declare about the tie-up on their website or any other public platform.
2. Any IP that has come up through ideas from students or staff is property of the college / university.
3. If there is any dispute with the student(s), the Institution and Blackbuck together will together resolve the same in the best interest of the student(s). Any course started by the student has to be completed till certification. However there will be an exit possibility for students by producing a valid reason approved by both Institution and Blackbuck.
4. Intellectual Property and Trademarks - Both the parties will continue with their respective trademarks including that of any improvements or work done at its own cost for this AGREEMENT. However, any course delivery for academic purposes that does not contain any IP related information - video, audio, text material thus made through this collaboration - shall be made available online for a larger audience.

ARTICLE 7: TERMS AND TERMINATION

1. This AGREEMENT will come into effect on the date of signature and will remain in force for three years until either of the two parties serves a written notice to the other at their addresses mentioned as above by registered post of its intention to terminate the Agreement in which case it will terminate one month after the receipt of such a notification.
2. The agreement can be renewed on expiry on mutually agreed terms and conditions. Notwithstanding anything in this MoU, neither Party shall be liable to the other for any failure to achieve any of the objectives and undertakings herein.

3. However, commitments made by either party in respect of personnel hired or equipment ordered, under this MoU would be honoured by respective parties. Termination shall be effective only after the obligations towards a running batch are completed.

ARTICLE 9: MODIFICATIONS

1. The AGREEMENT may be amended by mutual consent through an exchange of correspondence between the two Parties.
2. Such amendments come into existence only by a written agreement duly signed by persons authorized on behalf of each party.

ARTICLE 10: OTHER TERMS AND CONDITIONS

1. Blackbucks team will be posting opportunities to the enrolled students of this program.
2. While the MOU is under force, either Institution or Blackbuck should restrain from poaching any resources presently working with their respective entities. They should not be employed directly or in-directly by any party without the consent in writing of the other party.
3. Notwithstanding anything contained in the rules, the administrative rules, regulations, discipline and conduct rules procedures being applicable to the regular students of the college are applicable to the participants in mutatis-mutandis.

FOR BLACKBUCK

FOR THE INSTITUTION

FIRST PARTY

SECOND PARTY

ANURADHA THOTA

AUTHORIZED SIGNATORY

Chief Executive Officer
Blackbuck Engineers Pvt. Ltd.,
Jubilee Hills, Hyderabad

Designation
Institute Name
Address

www.theblackbucks.com

<https://www.pbsiddhartha.ac.in/>

MEMORANDUM OF UNDERSTANDING

(MoU)

BETWEEN

ExcelR Solutions



&

**Parvathaneni Brahmaya Siddhartha College of
Arts & Science**



FOR

**Student Development & Faculty Development
Programs on Different Emerging Software
Technologies**

ExcelR Solution

49, 1st Cross, 27th Main, behind Tata Motors, 1st Stage, BTM Layout, Bengaluru, Karnataka 560068.

Email: enquiry@excelr.com | 1800-212-2120 (Toll Free)

www.excelr.com

MEMORANDUM OF UNDERSTANDING

This **Memorandum of Understanding** (herein after called as the 'MOU') is entered into on this the 11th day of August month 2022 (Date 11-08-2022),

by and between **ExcelR Solutions**,
(here in after referred as '**First Party**')

And

**Parvathaneni Brahmayya Siddhartha College of
Arts & Science**

(herein after referred to as "**Second Party**",

(First Party and Second Party are hereinafter jointly referred to as '**Parties**'
and individually as '**Party**')

WHEREAS:

1. First Party is a EdTech company: ExcelR Solutions
2. First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources and provide each of them with enhanced opportunities.
3. The Parties intent to cooperate and focus their efforts on cooperation within area of Skill Based Training, Education and Research.
4. Both Parties, being legal entities in themselves desire to sign this MOU for advancing their mutual interests.

ExcelR Solution

49, 1st Cross, 27th Main, behind Tata Motors, 1st Stage, BTM Layout, Bengaluru, Karnataka 560068.

Email: enquiry@excelr.com | 1800-212-2120 (Toll Free)

www.excelr.com

**NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL
PROMISES SET FORTH IN THIS MOU, THE PARTIES HERE TO
AGREE AS FOLLOWS:**

CLAUSE 1: CO-OPERATION

5. Both Parties are united by common interests and objectives, and they shall establish channels of communication and co-operation that will promote and advance their respective operations within the Institution and its related wings.
6. First Party and Second Party co-operation will facilitate effective utilization of the intellectual capabilities of the faculty of First Party providing significant inputs to the second party in developing suitable teaching / training systems, keeping in mind the needs of the industry, the Second Party.
7. The general terms of co-operation shall be governed by this MOU. The Parties shall cooperate with each other and shall, as promptly as is reasonably practical, enter into all relevant agreements, deeds and documents (the 'Definitive Documents') as may be required to give effect to the actions contemplated in terms of this MOU. The term of Definitive Documents shall be mutually decided between the Parties. Along with the Definitive Documents, this MOU shall represent the entire understanding as to the subject matter hereof and shall supersede any prior understanding between the Parties on the subject matter hereof.
8. ExcelR would be the training delivery partner for the second party on various trending technologies
9. Training & Development and dissemination of knowledge for students of second party & affiliated colleges and employees of both the organizations.
10. ExcelR will reach out to students to communicate the course details, webinars, blogs, industry events etc., which will be informative or promotional in nature.
11. ExcelR would work with incubation centers/ innovation cells of second party (Case to case basis), to formulate the business cases and data collection process from various industry and academic bodies that are associated with the second party
12. Cooperation between both parties would be extended to any other area which may be mutually beneficial to both the organizations.

CLAUSE 2: SCOPE OF THE MoU

13. The budding graduates from the institutions could play a key role in technological up-gradation, innovation, and competitiveness of an industry. Both parties believe that close co-operation between the two would be of major benefit to the student community to enhance their skills and knowledge.

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14. Curriculum Design: First Party will give valuable inputs to the Second Party in teaching / training methodology and suitably customise the curriculum so that the students fit into the industrial scenario meaningfully.
15. Software Technologies Training: The first party will provide the trainings to the students and Faculties of the second party on different technologies like Data Science, Data Analyst, Artificial Intelligence, Tableau, Python, etc., Research and Development
16. Skill Development Programs: First Party to train the students of second Party on the emerging technologies in order to bridge the skill gap and make them industry ready.
17. Guest Lectures: First Party to extend the necessary support to deliver guest lectures to the students of the second Party on the technology trends and in house requirements.
18. Faculty Development Programs: First Party to train the faculties of second Party for imparting training as per the industrial requirement considering the National Occupational Standards in concerned sector, if available.
19. Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required for offering the Programs on the terms specified herein
20. There is no financial commitment on the part of the second party to enrol the students and faculties for the different free trainings run by the first party under Everyday Learning Initiation.
21. First party would extend the help in providing artifacts such as training records, certificates to the second party upon a written request from the second party. This information is limited to only the students of second party and at the discretion of first party.
22. In case, second party wants to conduct customized commercial trainings then this agreement can be amend/adding annexure with mutually agreed terms.

CLAUSE 3: INTELLECTUAL PROPERTY

23. The first party will have the sole rights on the curriculum and related content provided in the trainings and it cannot be replicated or copied without the consent of the first party.
24. Confidentiality: Except as may otherwise be required by law, each party will hold confidential, during and after the term of this Agreement, any confidential information disclosed to it or its representatives, and will not disclose any such confidential information to any third party.

CLAUSE 4: VALIDITY

25. The period of the agreement is valid for a period of 2 years from the date of signing of this agreement
26. This agreement will be valid only at the intentions of the parties involved therein, this MOU could be dissolved or cancelled by either party any time by giving 30 days' notice and shall not have any legal bindings in nature. should either or all the parties to it opt to not act upon, the MOU loses its validity.

ExcelR Solution

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CLAUSE 5 : RELATIONSHIP BETWEEN THE PARTIES

27. It is expressly agreed that First Party and Second Party are acting under this MOU as independent contractors, and the relationship established under this MOU shall not be construed as a partnership. Neither Party is authorized to use the other Party's name to make any representations or create any obligation or liability, expressed or implied, on behalf of the other Party, without the prior written consent of the other Party. Neither Party shall have, nor represent itself as having, any authority under the terms of this MOU to make agreements of any kind in the name of or binding upon the other Party, to pledge the other Party's credit, or to extend credit on behalf of the other Party.

AGREED:

For: ExcelR Solutions.

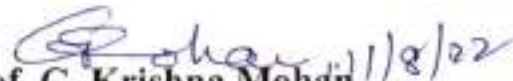



Srinivas Gurrala
(Director, ExcelR)
Authorized Signatory

GST:27AAEFE5003F1ZX
TIN: HYDE02965E

Contact Person : Mr. M Acharya Bharadwaj
Designation : BD Manager
Mobile No: 6281405729
Email ID : bharadwaj.muktavaram@excelr.com
Website : www.excelr.com

For: Parvathaneni
Brahmayya Siddhartha
College of Arts & Science


Prof. G. Krishna Mohan,
Head, Dept. of Data Science
Authorized Signatory



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CLOUD AND AUTOMATION ACADEMY AGREEMENT

This Juniper Networks Cloud and Automation Academy Agreement (“**Agreement**”) is entered into between Juniper (as defined below) and Parvathaneni Brahmayya Siddhartha College of Arts and Science (“**JNCAAM**”) (each individually, a “**Party**”, and collectively, the “**Parties**”). This Agreement shall be effective as of date last signed by a party below (“**Effective Date**”).

The Parties agree as follows:

1. **Scope.** This Agreement sets forth the terms and conditions for membership in the JNCAA program.

2. Appointment of JNCAAM

2.1. Membership Appointment. Subject to the terms and conditions of this Agreement, Juniper hereby appoints JNCAAM as a member in the JNCAA program. Juniper will provide JNCAAM access to the Course Materials and Authorized Courses through the JNCAA Website and Juniper Networks Learning Portal. Access to Juniper’s hosted lab facilities is limited and must be granted through the Program Manager. If JNCAAM chooses to teach its students, JNCAAM may gain broader access to the Juniper Networks Education Services training materials, including lab topologies and configurations, instructor notes, and train the trainer videos. JNCAAM students may earn Juniper professional certification, by earning a discounted voucher through a pre-test at the end of each Authorized Course. At Juniper’s sole discretion, membership status, requirements, guidelines, and restrictions are subject to change at any time.

2.2. Non-exclusive Appointment. Any appointment of JNCAAM under this Agreement is non-exclusive.

3. **Term.** This Agreement shall commence on the Effective Date and will have an initial term until the June 30th immediately following the Effective Date (“**Initial Term**”). After the Initial Term, on July 1st of each subsequent year, this Agreement shall automatically renew for successive one-year terms (“**Renewal Term**”) (collectively, the “**Term**”); unless, however, before this Agreement automatically renews, either party gives no less than ninety (90) days written notice to the other party, that the Agreement will terminate at end of the then-current term.

4. No Membership Fee; Indirect Purchasing.

4.1. No Membership Fee. Membership in the JNCAA program is on a no-fee basis and no direct payments to Juniper are due under this Agreement.

4.2. Indirect Purchasing. JNCAAM may purchase Juniper hardware, software, services, and cloud services (collectively, “**Lab Equipment**”) through an Authorized Reseller. To the extent permitted by law, Juniper will use commercially reasonable efforts to work with its Authorized Resellers to ensure that such Authorized Resellers extend to JNCAAM the minimum discounts for hardware and software off of Juniper’s then-current Master Price List as set forth on the JNCAA Website. JNCAAM shall negotiate all commercial transactional terms and conditions of indirect purchases with the Authorized Reseller, including, but not limited to, payment, ordering, cancellations and rescheduling, delivery, and taxes. JNCAAM acknowledges that Juniper will not be a party to any contract or other arrangement between an Authorized Reseller and JNCAAM.

5. Membership Obligations, Requirements, and Restrictions

5.1. Membership Obligations. In order to maintain membership status and continued participation in the JNCAA program, JNCAAM must comply with the terms and conditions in this Agreement and all Online Policies, Guidelines and Procedures. All Authorized Courses are subject to the terms and conditions on the Juniper Networks Learning Portal. JNCAAM must regularly check the JNCAA Website for announcements, instructions, and directions to perform its obligations under this Agreement.

5.2. Lab Equipment. Should JNCAAM purchase Juniper Lab Equipment, JNCAAM may only use such Lab Equipment for the purpose of providing instruction to students and teaching students pursuant to terms of this Agreement and not for any other purpose whatsoever. JNCAAM’s failure to comply with this Section 5.2 shall be deemed a material breach of this Agreement and the end user license agreement that accompanies such Lab Equipment, and shall be grounds for immediate termination for cause of this Agreement and the accompanying software license.

5.3. Educational Institution. Throughout the Term of this Agreement, JNCAAM must maintain its standing and qualification as a recognized educational institution, such as Academic Research Institution, University, College and Junior College, vocational or technical school, high school or academic foundation; including, military training command and professional organization that regularly provide on-going continuing education and training to technology professionals.

- 5.4. Use of Course Materials in combination with non-Course Materials. JNCAAM instructors may use non-Course Materials, such as JNCAAM or third party developed course materials, with Course Materials in the classroom for instruction and teaching of students; provided, use of such materials does not infringe on third parties rights and does not replace, conflict with, or distract from Course Materials or the underlying purpose and objective of this Agreement to instruct and teach Authorized Courses to students. Authorized Course names and numbers must be referenced accurately by JNCAAM, and all non-Course Materials used for instruction and teaching must be clearly identified as such and differentiated from Courses Materials.
- 5.5. Prohibited Use of Courses Materials. JNCAAM shall not offer to instruct or teach, distribute, or sell any training course for Juniper's products and/or services (including, without limitation, any instructor-led or self-study course) that, in the sole judgment of Juniper, competes with the underlying purpose and intention of this Agreement, which is to authorize JNCAAM to instruct and teach students Authorized Courses. JNCAAM shall follow written instructions of the Program Manager respecting its instruction or teaching, distribution, or selling any training course materials relative to Juniper's products and/or services that, in the sole judgment of the Program Manager, is not in the best interests of the underlying purpose and intent of this Agreement.
- 5.6. Course Materials. JNCAAM shall encourage students to obtain current Course Materials provided via the Juniper Networks Learning Portal. From time-to-time, additional materials may be added to list of Authorized Courses. JNCAAM shall not reproduce or copy Course Materials in any media or format, unless prior written authorization is obtained from Juniper.
- 5.7. Student Satisfaction. JNCAAM shall endeavor to ensure high-level of student satisfaction with its course delivery and curricula by offering high quality instructional and educational classes that include regular and significant exposure to Juniper's technologies.

6. Confidential Information.

- 6.1. Scope. "**Confidential Information**" means all information disclosed, directly or indirectly, to the other party (the "**Receiving Party**") and labeled as confidential or proprietary, stated at the time of oral disclosure to be confidential or proprietary, or by the nature of the information and the circumstances of the disclosure, the Receiving Party should reasonably infer to be confidential or proprietary. Confidential Information does not include information which: (i) is or becomes generally known through no fault of the Receiving Party; (ii) is known to the Receiving Party at the time of receipt, as evidenced by the Receiving Party's records; (iii) is hereafter furnished to the Receiving Party by a third party as a matter of right and without restriction on disclosure; or (iv) is independently developed, as evidenced by contemporaneous records by the Receiving Party without use of or reference to such Confidential Information.
- 6.2. Protection. The Receiving Party will use a reasonable degree of care to maintain all Confidential Information to accomplish the purposes of this Agreement or as otherwise agreed in writing by the disclosing Party. The Receiving Party will not disclose to any third party nor use Confidential Information for any unauthorized purpose. The Receiving Party may only disclose Confidential Information: (i) to its employees and representatives that have a need to know to accomplish the purposes of this Agreement; and (ii) in response to a valid order of a court or other governmental body or as otherwise required by law to be disclosed, provided the Receiving Party, to the extent legally permissible, gives sufficient notice to the disclosing party to enable the disclosing party to take protective measures. Except as otherwise expressly set forth in this Agreement, no rights or licenses to intellectual property in Confidential Information is granted by either Party under this Agreement, whether express, implied or otherwise, to the other Party. The obligations imposed on the Receiving Party shall survive the expiration or termination of this Agreement.

7. **Data Protection.** All data collected, processed, and/or used in connection with this Agreement is subject to the Juniper Privacy Policy. Juniper shall maintain appropriate administrative, physical, and technical safeguards for protection of the security, confidentiality, and integrity of End User Data as described in the applicable Documentation. To the extent End User Data includes Personal Data, as defined in the Data Protection Agreement ("**DPA**") located at <https://www.juniper.net/us/en/privacy-policy/customer-dpa/>, the terms of the DPA are hereby incorporated by reference and shall apply.

8. Ownership Rights and License Grants.

8.1. Ownership of Course Materials, Derivative Materials, and Software.

- 8.1.1. Juniper has and shall have sole right, title, and ownership to all copyrights and other intellectual property rights in Authorized Courses, Course Materials, and Derivative Materials.
- 8.1.2. If applicable, JNCAAM may create Derivative Materials solely for purposes of developing classroom materials for use in Authorized Courses; provided, however, JNCAAM shall not make any Derivative Materials based in whole or in part on any software furnished by Juniper.
- 8.1.3. JNCAAM agrees to assign, and does hereby assign, to Juniper, all of its copyrights and other intellectual property rights, if any, in Derivative Materials, and shall execute such documents and perform such other acts as Juniper may reasonably request from time to time, to enable Juniper to perfect and protect its rights in Derivative Materials.
- 8.1.4. Upon completion of any Derivative Materials, JNCAAM shall promptly deliver to Juniper a sample copy of such materials; provided, however, that JNCAAM may do so without infringing any third party rights; otherwise, it shall not make such delivery, but shall instead promptly identify such third parties and their rights with prior written notice to Juniper.
- 8.1.5. All software and hardware furnished by Juniper under this Agreement will remain the sole and exclusive property of Juniper, or, as the case may be, its third party licensors, and shall be subject to the terms and conditions of Juniper's software license agreement.

8.1.6. Anti Piracy. JNCAAM shall not engage in the manufacture, use, distribution, supply, marketing, or promotion of any counterfeit, pirated, or illegal Juniper products, including, but not limited to, software or Course Materials, and if suspected or accused of being involved in such activities, will assist Juniper as reasonably necessary in the investigation and resolution of the matter.

8.2. Mutual Trademark License Grants.

8.2.1. License Grant to JNCAAM. Provided JNCAAM obtains specific prior written approval and authorization from Program Manager, at such time, Juniper thereby grants to JNCAAM, without charge, a nonexclusive, nontransferable right to use and display the trademarks, service marks, and logos claimed by Juniper ("**Juniper Marks**") solely in connection with and to the extent reasonably necessary for the promotion of its classes to instruct and teach students as contemplated under this Agreement. As contemplated in this Agreement, JNCAAM may market availability of classes for Authorized Courses to potential students using only Juniper Marks. JNCAAM will not remove or alter the Juniper or its third-party licensors', as the case may be, copyright notices, trademarks, or packaging found on any materials furnished to JNCAAM under this Agreement.

JNCAAM will use the Juniper Marks in accordance with Juniper's trademark guidelines or style guide and if requested by Juniper, furnish to Juniper all promotional, advertising, or other materials that refer to or display any Juniper Marks for Juniper's review and approval. Use of the Juniper Marks does not create in JNCAAM's favor any right, title, or interest in Juniper Marks or in continuing rights to promote and market Authorized Courses, or to instruct or teach Course Materials as contemplated in this Agreement. JNCAAM agrees to cooperate with Juniper if Juniper seeks to proceed with any infringement action regarding such rights.

8.2.2. License Grant to Juniper. Provided Juniper obtains specific prior written approval and authorization from the instructor designated to act as the primary point of contact with Program Manager, at such time, JNCAAM thereby grants to Juniper, without charge, a nonexclusive, nontransferable right to use and display the trademarks, service marks, and logos claimed by JNCAAM ("**JNCAAM Marks**") solely in connection with and to the extent reasonably necessary for the promotion of the JNCAA program to potential members. Juniper will not remove or alter the JNCAAM or its third party licensors', as the case may be, copyright notices, trademarks, or packaging found on any materials furnished to Juniper under this Agreement.

Juniper will use the JNCAAM Marks in accordance with JNCAAM's trademark guidelines or style guide and if requested by JNCAAM, furnish to JNCAAM all promotional, advertising, or other materials that refer to or display any JNCAAM Marks for JNCAAM's review and approval. Use of the JNCAAM Marks does not create in Juniper favor any right, title, or interest in JNCAAM Marks or in continuing rights to promote and market the JNCAA program as contemplated in this Agreement. Juniper agrees to cooperate with JNCAAM if JNCAAM seeks to proceed with any infringement action regarding such rights.

9. Indemnification. Except to the extent caused by the gross negligence or willful misconduct of Juniper, its employees or agents, JNCAAM will, as permitted by applicable law, indemnify, defend and hold harmless Juniper and its directors, officers, employees, shareholders, agents, and affiliates (the "**Indemnitees**") from any and all losses, damages, liabilities, judgments, settlements, interest, penalties, fines, costs, and expenses of whatever kind, including attorney's fees, arising out of any third-party claims resulting from misappropriation of Juniper's intellectual property, whether actual or alleged. THE INDEMNIFICATION OBLIGATIONS SET FORTH ABOVE SHALL APPLY IN EACH CASE WHETHER OR NOT CONTRIBUTED TO, OR CAUSED IN PART BY, THE ACTIVE OR PASSIVE NEGLIGENCE OR FAULT (OTHER THAN GROSS NEGLIGENCE OR WILLFUL MISCONDUCT) OF JUNIPER, ITS EMPLOYEES, OR AGENTS. Notwithstanding anything to the contrary set forth in this Section, (i) an Indemnitee may participate, at its own expense, in any defense and settlement directly or through counsel of its choice, and (ii) JNCAAM will not enter into any settlement agreement on terms that would diminish the rights provided to the Indemnitee, accept any liability, or increase the obligations assumed by the Indemnitee under this Agreement, without the prior written consent of the Indemnitee.

10. Limitation of Liability. IN NO EVENT SHALL JUNIPER OR ITS AFFILIATES HAVE ANY LIABILITY ARISING OUT OF, OR IN CONNECTION WITH, THIS AGREEMENT, UNDER ANY THEORY OF LIABILITY, INCLUDING, WITHOUT LIMITATION, NEGLIGENCE, THOSE RESULTING FROM ACCESS TO THE AUTHORIZED COURSES, THE USE OF COURSE MATERIALS, OR FOR ANY OTHER REASON. THIS LIMITATION SHALL APPLY NOTWITHSTANDING THE FAILURE OF THE ESSENTIAL PURPOSE OF ANY EXCLUSIVE OR LIMITED REMEDY. IN EVERY INSTANCE INVOLVING INACCURACIES OR MISTAKES IN AUTHORIZED COURSES OR COURSE MATERIALS, AS REASONABLY DETERMINED BY JUNIPER IN ITS SOLE DISCRETION, JUNIPER'S SOLE RESPONSIBILITY AND JNCAAM'S SOLE REMEDY SHALL BE CORRECTION OR REPLACEMENT OF SUCH AUTHORIZED COURSES OR COURSE MATERIALS BY JUNIPER IN A REASONABLE AMOUNT OF TIME.

11. Warranty Disclaimer. Except as expressly set forth in this Agreement, and to the extent permitted by applicable Law, JUNIPER (ON BEHALF OF ITSELF AND ITS AFFILIATES) MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY, NONINFRINGEMENT OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE AUTHORIZED COURSES, COURSE MATERIALS, OR OTHER MATERIALS PREPARED AND SUPPLIED BY OR ON BEHALF OF JUNIPER UNDER THIS AGREEMENT. JNCAAM ACKNOWLEDGES THAT IT HAS INDEPENDENTLY EVALUATED THE POTENTIAL RISKS AND BENEFITS OF ENTERING INTO THIS AGREEMENT AND OF PERFORMING UNDER THIS AGREEMENT. JNCAAM ACKNOWLEDGES THAT IT HAS IN NO WAY RELIED ON ANY ASSURANCES OR REPRESENTATIONS OF JUNIPER OR ANYONE PURPORTING TO ACT ON ITS BEHALF REGARDING THE POTENTIAL FUTURE BUSINESS, PROFITS, OPPORTUNITIES, REVENUES, COSTS OR CAPITAL INVESTMENTS.

12. Termination.

- 12.1. Either party may terminate this Agreement for cause if the other party breaches any material term or condition of this Agreement and fails to cure such breach within ten (10) days following receipt of written notice of termination from the non-breaching party; whereupon, such termination shall be effective immediately at end of the ten (10) day cure period.
- 12.2. Either party may terminate this Agreement without cause by providing the other party with no less than ninety (90) days advance written notice.
- 12.3. Effect of Termination. Upon termination of this Agreement:
- 12.3.1. Each party shall promptly return to the other party, or destroy upon the disclosing party's written approval, all Confidential Information of the disclosing party in its possession or control, and shall provide the disclosing party with a written certification signed by one of its officers certifying to the return or destruction, of such Confidential Information.
- 12.3.2. JNCAAM shall promptly discontinue use of the Juniper Marks and return to Juniper all materials and uses containing such Juniper Marks, and Juniper shall promptly discontinue use of the JNCAAM Marks and return to JNCAAM all materials and uses containing such JNCAAM Marks. Each party shall provide the other party with a written certification signed by one of its officers certifying to the return or destruction, of the other party's marks identified herein.
- 12.3.3. As instructed and requested by Program Manager, within thirty (30) days after termination of this Agreement, JNCAAM shall return or destroy all materials, documents, plaque(s), etc., related to the JNCAA program. If Program Manger authorizes destruction of such materials, JNCAAM shall provide Juniper with a written certification signed by one of its duly authorized officers or high-ranking executive, management or representative employee certifying the destruction of all such materials.
- 12.4. No Damages for Termination. Neither party will be liable to the other party for any claims or damages of any kind arising out of the termination of this Agreement in accordance with this Section 12, including any incidental or consequential damages, including without limitation any compensation, reimbursement for the loss of prospective profits, anticipated sales or goodwill. However, termination will not extinguish any liability of either party arising before termination of this Agreement.

13. Miscellaneous.

- 13.1. Governing Law. This Agreement shall be interpreted and governed by the Territory Law.
- 13.2. Dispute Resolution. If section 14.25(a) applies:
- 13.2.1. any dispute arising out of or in connection with this Agreement, including any question regarding its existence, validity or termination, shall be referred to and finally resolved by arbitration administered by the Singapore International Arbitration Centre ("**SIAC**") in accordance with the Arbitration Rules of the Singapore International Arbitration Centre ("**SIAC Rules**") for the time being in force, which rules are deemed to be incorporated by reference in this clause. The seat of the arbitration shall be Singapore. The Arbitral Tribunal shall consist of a sole Arbitrator. The language of the arbitration shall be English;
- 13.2.2. nothing in this section 13.2 shall preclude any party from seeking interim relief(s) or order(s) for interim preservation in the courts of the Territory Law ("**Territory Court**"), and the parties agree to submit to the exclusive jurisdiction of the Territory Court for this purpose. The parties agree that any such application to the Territory Court shall not be considered as demonstrating an intention to act inconsistently in any way with these terms to settle disputes by arbitration in accordance with this section 13.2;
- 13.2.3. notwithstanding sections 13.2.1 and 13.2.2, either party may seek interim injunctive relief in the Territory Court with respect to any alleged breach of confidentiality or such party's intellectual property or proprietary rights; and
- 13.2.4. the Parties agree that any disputes arising out of or in connection with this Agreement which the Territory Law specifically prohibits from being resolved by arbitration, shall be subject to the exclusive jurisdiction of the Territory Court and the Parties agree to submit to the exclusive jurisdiction of the Territory Court in respect of all disputes that cannot be resolved by arbitration.
- 13.3. Compliance with Laws. JNCAAM and its personnel shall always comply with the Compliance Rules.
- 13.4. Force Majeure. Neither Party will be responsible for any failure or delay in performance due to causes beyond its reasonable control, provided such Party promptly notifies the other Party in writing of such event.
- 13.5. Assignment. JNCAAM may not assign or delegate or otherwise transfer its licenses, rights, or duties under this Agreement except with the prior written consent of Juniper. Any attempted prohibited assignment will be void. Juniper may assign, sub-contract or delegate any or all of its rights and/or its obligations under this Agreement to any Affiliate of Juniper without the consent of JNCAAM. Subject to the foregoing, this Agreement shall be binding upon and inure to the benefit of the Parties hereto and their successors and assigns.
- 13.6. Notices. Any notices related to this Agreement must be in writing and sent by registered mail or receipted courier service, in the case of: (i) Juniper, to the Address Details; and (ii) the JNCAAM, to the address provided by the JNCAAM as set forth below, or to such other address as may be specified by JNCAAM to Juniper in writing in accordance with this Section. Any such notices shall be considered given upon receipt, as confirmed by the delivery confirmation records. Juniper may permit other notification methods as described in the Onboarding Information. Notices may also be posted on the relevant Juniper website.

JNCAAM Name: Parvathaneni Brahmayya Siddhartha College of Arts and Science

JNCAAM Address Siddhartha Nagar, Moghalraja Puram, Vijayawada, Andhra Pradesh 520010

Attention: _____

Telephone: 08662475966

Severability; Remedies; Waiver. In the event that any one or more provisions contained herein shall be held by a court of competent jurisdiction to be invalid, illegal, or unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions contained herein shall not in any way be affected or impaired. Except as otherwise expressly provided herein, the remedies contained herein are cumulative and in addition to any other remedies at law or equity. A Party's failure to enforce any provision of this Agreement shall not constitute a waiver of any future enforcement of that or any other provision of this Agreement.


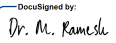
- 13.7. No Third-Party Beneficiaries. This Agreement does not constitute a third party beneficiary contract and, unless expressly and specifically stated in this Agreement, shall not be construed to be for the benefit of any person or entity not a party hereto, and no such person or entity shall have any license, right, or claim in connection with this Agreement.
- 13.8. Guidelines and Policies. Juniper may at any time modify any Online Policies, Guidelines and Procedures effective when posted to the applicable site, provided that no such modification shall affect the provision of Authorized Courses or Course Materials prior to the effective date of such modification. By accessing or using Authorized Courses or Course Materials under this Agreement, JNCAAM understands that it is bound by Juniper's then-current version of its Online Policies, Guidelines and Procedures.
- 13.9. Entire Agreement; Amendment. This Agreement, including any attachments, URLs, and Online Policies, Guidelines and Procedures incorporated by reference herein, constitute the entire agreement between the Parties and supersede all previous and/or contemporaneous agreements and understandings, whether oral or written, between the Parties hereto with respect to the subject matter of this Agreement. No waiver, consent, modification, amendment or change of the terms contained herein shall be binding unless in writing and signed by the relevant authorized representatives of each of the Parties.

14. Glossary

- 14.1. "Address Details" means the Juniper corporate address as set forth at <https://www.juniper.net/us/en/contact-us/corporate-counsel/>, but does not include any email address (if listed).
- 14.2. "Affiliate" of a party means, any entity and its successors controlled by, controlling, or under common control with, such party, where "control" in any of the foregoing forms means ownership, either direct or indirect, of more than 50% of the equity interest entitled to vote for the election of directors or equivalent governing body. An entity shall be considered an Affiliate only so long as such entity continues to meet the foregoing definition.
- 14.3. "Authorized Course(s)" means all Juniper certification courses at the associate and specialist certification levels listed at https://jncaa.juniper.net/wp-content/uploads/JNAA-Paths_062218.pdf and located on the Juniper Networks LearningPortal.
- 14.4. "Authorized Reseller" means a reseller of Lab Equipment that sells Lab Equipment contracts to End Users pursuant to a valid contract with Juniper to conduct such resale activities.
- 14.5. "Business Partner Code of Conduct" means the code of conduct which is located and accessible at <http://www.juniper.net/assets/us/en/local/pdf/additional-resources/business-partner-code-of-conduct.pdf>.
- 14.6. "Codes" means: (a) Juniper's Business Partner Code of Conduct; and (b) any other policies, guidelines, or references that Juniper makes available to JNCAAM from time to time.
- 14.7. "Compliance Rules" means: (a) Laws; (b) any legislation or regulation with respect to anti-bribery, anti-slavery, anti-corruption (including the U.S. Foreign Corrupt Practices Act and the UK Bribery Act) or anti-terrorism; (c) any Export Laws; and (d) any Codes.
- 14.8. "Course Materials" means materials or other intellectual property developed by Juniper for distribution to and use by JNCAAM and/or JNCAAM students; and include, but are not limited to, online materials provided via the Juniper Learning Portal and the JNCAA Website, course books, Juniper instructor guides and other reference and supporting materials and documentation used for instruction and teaching students, and Derivative Materials.
- 14.9. "Derivative Materials" means any and all derivative materials (within the meaning of Section 101 of the U.S. Copyright Act of 1978, as amended) based on any Course Materials or other copyrightable works of Juniper, whether created by Juniper or JNCAAM.
- 14.10. "Documentation" in any form whatsoever, means any Juniper manuals, materials, guides, specifications, tables, charts, diagrams, pictures, schematics, plans, methods, reports or testing procedures, and any information required for training or education purposes and includes any updates, changes, or derivatives of any of the foregoing.
- 14.11. "End User" means the person or organization that originally purchases, leases or licenses Lab Equipment from an Authorized Reseller for use in such person's or organization's own business operations and not for further distribution or sale.
- 14.12. "End User Data" means all information submitted by JNCAAM to Juniper and may include third party data that JNCAAM submits to Juniper.

- 14.13. "Export Laws" means any export and import controls and trade sanctions, including prohibitions or restrictions with sanctioned entities as described at <https://www.juniper.net/Shipping-Terms-Exhibit>.
- 14.14. "JNCAA" means the Juniper Networks Cloud and Automation Academy.
- 14.15. "JNCAAM" means the Party referenced in the Preamble participating in the JNCAA program under this Agreement.
- 14.16. "JNCAA Website" means the JNCAA website located at <https://jncaa.juniper.net/>.
- 14.17. "Juniper Networks Learning Portal" means the online learning portal available at <https://learningportal.juniper.net>.
- 14.18. "Juniper's Website" means www.juniper.net, including, but not limited to, the JNCAA Website and the Juniper Networks Learning Portal.
- 14.19. "Juniper" means, if Course Materials and/or Authorized Courses are provided by Juniper to a location in: (a) North America, Central America or South America, Juniper Networks (U.S.), Inc., (b) United Kingdom, Juniper Networks (U.K.) Limited; (c) India, Juniper Networks Solution India Private Limited; (d) Australia, Juniper Networks Australia Pty Ltd; or where a location is not listed above, Juniper Networks International B.V.
- 14.20. "Juniper Privacy Policy" means the Juniper Privacy Policy posted at the following URL: <https://www.juniper.net/us/en/privacy-policy/>.
- 14.21. "Laws" means laws, ordinances, codes, rules, standards, and regulations of any territory or jurisdiction.
- 14.22. "Onboarding Information" means information that Juniper provides to the JNCAAM (as updated from time to time) for the purposes of transacting under this Agreement and, in the case where JNCAAM provides information to Juniper, may include End User Data.
- 14.23. "Online Policies, Guidelines and Procedures" means, without limitation, any policies, guidelines, or procedures, that are applicable to the JNCAA program, referenced in this Agreement, and/or posted at Juniper's Website.
- 14.24. "Program Manager" means the JNCAA manager responsible for oversight of the JNCAA program, as designated by Juniper. The Program Manager may, in Juniper's sole discretion, be changed from time-to-time.
- 14.25. "Territory Law" means: (a) in the case where all of the Parties to this Agreement are incorporated in India, the laws of India and, subject to section 13.2, the Parties consent to the personal and exclusive jurisdiction of the courts in New Delhi; or (b) in all other cases, the laws of the State of California without regard to its conflict of laws principles or to the U.N. Convention on Contracts for the International Sale of Goods, the application of which is hereby excluded and any disputes arising out of this Agreement, the Parties consent to the personal and exclusive jurisdiction of, and venue in, the state and federal courts within Santa Clara County, California.

The Parties are signing this Agreement by their duly authorized officers or representatives.

Juniper (as defined in section 14.19 above)		<u>Parvathaneni Brahmayya Siddhartha College of Arts and Science</u> (JNCAA Member Name)	
 <small>DocuSigned by:</small> Rajendra Kane (Authorized Representative – Signature)		 <small>DocuSigned by:</small> Dr. M. Ramesh (Authorized Representative – Signature)	
Rajendra Kane (Authorized Representative – Printed)		Dr. M. Ramesh (Authorized Representative – Printed)	
Finance Controller August 17, 2022 (Title) (Date)		Principal 11-08-2022 (Title) (Dt)	

Juniper Networks
Business
Approved As To Form
Business

**MEMORANDUM OF UNDERSTANDING
FOR ACADEMIC PARTNERSHIP**

This Memorandum of Understanding (“MoU”) is entered into between Parvathaneni
Brahmayya Siddhartha College of Arts & Science (in short ‘Institute’)

AND

TechXR Innovations Private Limited (in short ‘TechXR’)

Each a “Participant” and collectively the “Participants”

effective as of date 20-07-2022

WHEREIN the Participants recognize the mutual benefits of academic collaboration on skill development in the broad area of Augmented and Virtual Reality (AR-VR) and allied technologies.

1. PURPOSE

The purpose of this MoU is to formalize partnerships with emphasis on:

- a) Academic partnership for offering training Program/Certification Courses for Engineering/Non-engineering Students of the Institute.
- b) Faculty development program for selected faculties of institute.
- c) Support for AR-VR laboratory/experience centre development at institute

2. SCOPE OF COOPERATION

TechXR to provide trainings, consultancy, learning resources and technical support as per terms and conditions mutually agreed upon. The Institute to circulate the details of trainings programs among interested participants and shortlist faculty for faculty development training by TechXR.

The Participants to collaborate in developing skills in AR-VR technology for students of the Institute in the following ways:

- a) TechXR shall offer selected courses free of cost to students of the INSTITUTE to spread awareness of AR-VR technology among students. TechXR will provide specific Access Code using which students can access the courses at the company’s learning portal for free.
- b) The INSTITUTE shall share the Access Code with its registered students and spread awareness on the available courses
- c) The INSTITUTE will recommend up to 3 faculty members for faculty development program by TechXR.
- d) TechXR will provide all the training material, access to learning modules, AR-VR Development Kit, Doubt clearing support, project evaluation and Certificate of course for identified faculty members free-of-cost for participating INSTITUTE.

3. INFORMATION USAGE

The Participants agree not to make improper use of any information that comes to itself or its agents or representatives in the performance of services under this Agreement.

4. INTELLECTUAL PROPERTY

- i. The INSTITUTE undertakes not to cause or permit anything which may damage or endanger the intellectual property of the Company or the Company's title to it or assist or allow others to do so.
- ii. The Company undertakes not to cause or permit anything which may damage or endanger the intellectual property of the INSTITUTE or the INSTITUTE title to it or assist or allow others to do so.
- iii. The Company and the INSTITUTE undertake not to infringe the intellectual property rights of any third party during the course of this Agreement.

5. CONSTRUCTION

The headings in this Agreement are inserted for convenience only and shall not be used to define, limit or describe the scope of this Agreement or any of the obligations herein. The language in all parts of this Agreement shall be in all cases construed according to its fair meaning.

TechXR Innovations Pvt Ltd

Parvathaneni Brahmayya
Siddhartha College of Arts & Science



Name
Title
Designation

Dr.M. RAMESH

PRINCIPAL



PRINCIPAL
PARVATHANENI BRAHMAYYA
SIDDHARTHA COLLEGE OF ARTS & SCIENC
VIJAYAWADA - 520 010.

Annexure A
(Free Certification Courses)

S.No.	Modules (on-line mode)	Price	Kit
1	Introduction to Scripting in C# with Unity Beginner Course for AR-VR Developer • 2 weeks	Free	Access code to LMS
2	Introduction to Game Development in Unity: Coin Collector Game • 2 weeks	Free	Access code to LMS
3	Introduction to 3D modelling with Blender • 2 weeks	Free	Access code to LMS
4	Introduction to Augmented Reality Development • 4 weeks	Free	Access code to LMS and TechXR Developer Cube
5	Faculty Development Program Introduction to Augmented and Virtual Reality Development • Live online and doubt clearing sessions • 6 weeks	Free	Access code to LMS and TechXR Developer Cube