

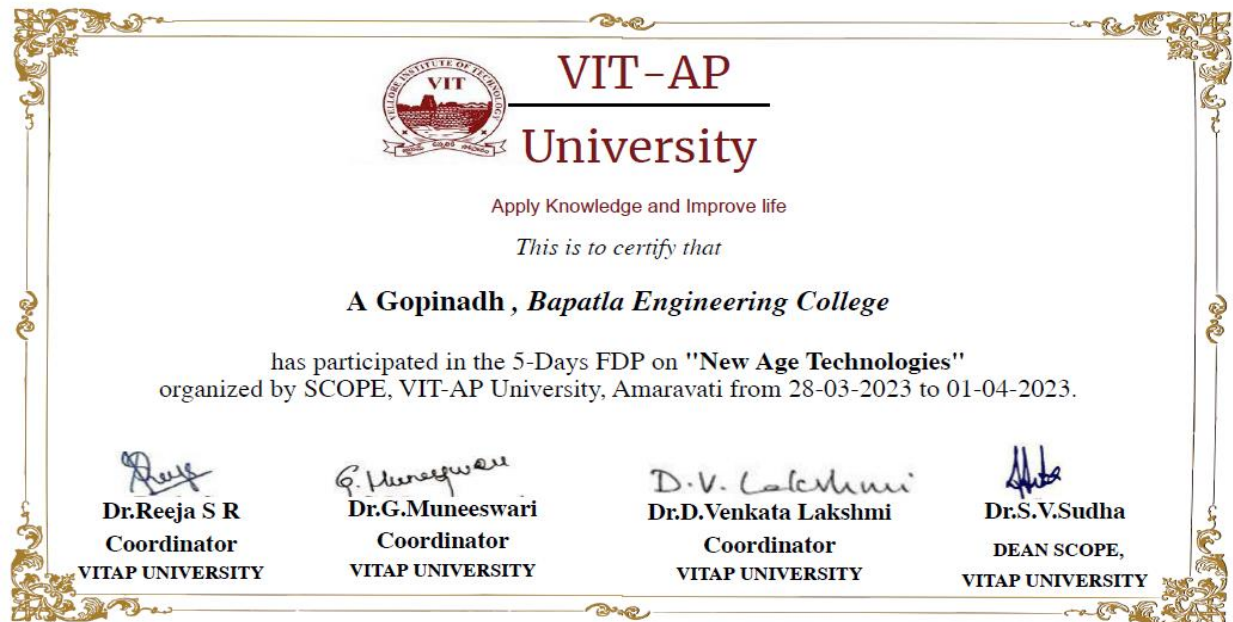
BAPATLA ENGINEERING COLLEGE::BAPATLA

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

FACULTY ATTENDED EVENTS DETAILS

APRIL MONTH ACHIEVEMENTS

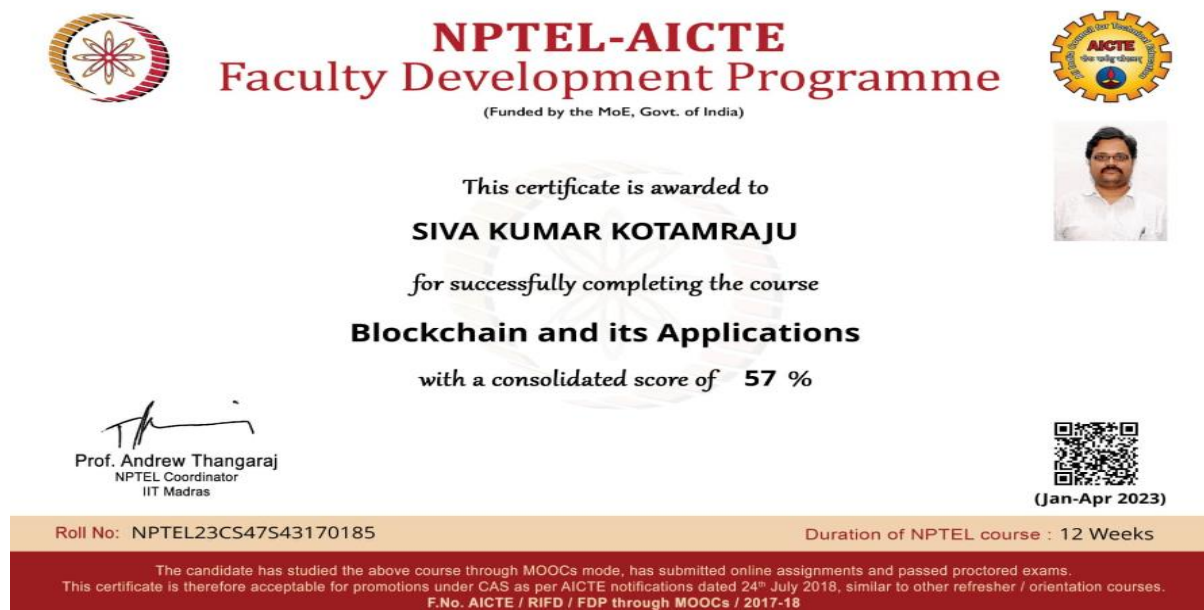
A **GOPINADH** has successfully participated in the **5-Days Faculty Development Program** on **New Age Technologies**, organized by School of Computer Science and Engineering (SCOPE), VIT-AP University, Amaravati from 28-03-2023 to 01-04-2023.



K. Siva Kumar, published a paper title ” **ADVANCED MACHINE LEARNING BASED ASPECT LEVEL SENTIMENT ANALYSIS FOR FLIPKART PRODUCTS**” Published in **International Journal of Creative Research Thoughts (IJCRT)** UGC Approved Journal No: 49023 with PAPER ID : IJCRT2304278 and Date of Publication: 09-April-2023.



K.Siva Kumar has successfully completing the 12 Weeks NPTEL COURSE "**Blockchain and its Applications**" from Jan to Apr 2023.



K.Siva Kumar has successfully completing the 8 Weeks NPTEL COURSE "**Optimization for Machine Learning: Theory and Implementation**" from Feb to Apr-2023.



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)




This certificate is awarded to
SIVA KUMAR KOTAMRAJU
for successfully completing the course

Optimisation for Machine Learning: Theory and Implementation (Hindi)

with a consolidated score of **62** %

Online Assignments	19.58/25	Proctored Exam	42.31/75
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Total number of candidates certified in this course: **81**


Dr. Anand Srivastava Ramanathan
Coordinator
Continued Education Program, IIITD

Feb-Apr 2023
(8 week course)


Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras



INDRAPRASTHA INSTITUTE of
INFORMATION TECHNOLOGY DELHI



Roll No: NPTEL23CS64S33170038

To validate the certificate



No. of credits recommended: 2 or 3

MAY MONTH ACHIEVEMENTS

Pujala Nanda Kishore, published a paper title “A NOVEL CLOUD-BASED FRAMEWORK FOR EMBEDDED SYSTEMS WITH IMPROVED SCALABILITY AND SPACE” in European Chemical Bulletin, published on 18th May 2023.

*A Novel Cloud-Based Framework for Embedded Systems
with Improved Scalability and Space*

Section A-Research paper



A NOVEL CLOUD-BASED FRAMEWORK FOR EMBEDDED SYSTEMS WITH IMPROVED SCALABILITY AND SPACE

Narender Chinthamu¹, K. G. S. Venkatesan²,
Ravindra Raman Cholla³, Pujala Nanda Kishore⁴, Rajiv Iyer⁵,
Priyanka Joshi⁶

Article History: Received: 12.02.2023

Revised: 01.04.2023

Accepted: 18.05.2023

Abstract

The rapid proliferation of embedded systems has led to a growing need for scalable and space-efficient frameworks for managing them. Cloud-based frameworks offer a promising solution to these challenges, enabling developers to leverage the power and flexibility of the cloud to manage and analyze embedded data. In this research article, we propose a novel cloud-based framework for embedded systems using ThingWorx as the proposed framework. ThingWorx is an IoT platform that provides a wide range of tools and capabilities for managing and analyzing data from connected devices. We begin by providing an overview of embedded systems and the need for a cloud-based framework. We then compare ThingWorx with existing cloud-based frameworks, highlighting its strengths and limitations. We provide a detailed description of the ThingWorx architecture, including the various components and how they interact. We also discuss the challenges faced during implementation and how they were addressed. To evaluate the performance of ThingWorx, we conducted several experiments, measuring its scalability, space-efficiency, and performance compared to existing frameworks. Our results show that ThingWorx outperforms existing frameworks in terms of scalability and space-efficiency, while maintaining high performance. We discuss the implications of our findings and the potential applications of ThingWorx in managing embedded systems in various industries. We also highlight the limitations of ThingWorx and areas for future research. In conclusion, we propose a novel cloud-based framework for managing embedded systems that offers improved scalability and space-efficiency using ThingWorx as the proposed framework. Our research shows that this framework can provide a powerful solution for managing and analyzing data from embedded systems, and has the potential to revolutionize the way we approach IoT and other embedded systems.

Keywords: Cloud-based framework, Embedded systems, ThingWorx, IoT platform, Scalability

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⁵Associate Professor, Department of Electronics and Telecommunication, KC College of Engineering and Management Studies and Research, Thane, Maharashtra 400603, India

⁶Graphic Era Hill University, Bhiinstal Campus, Uttarakhand, India

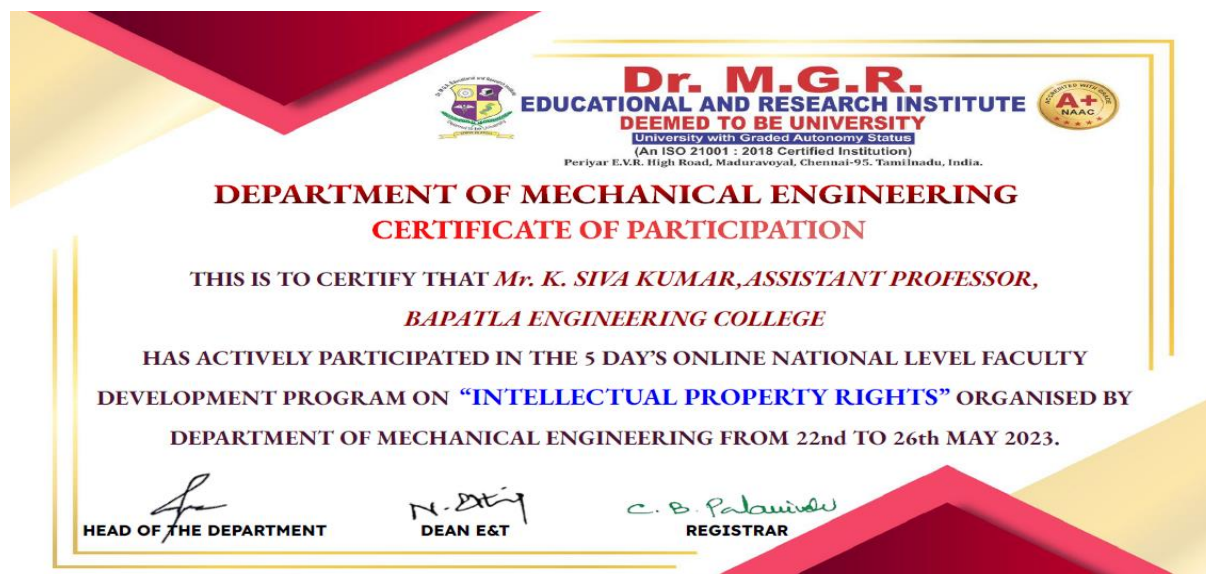
Email: ¹narender.chinthamu@gmail.com, ²venkatesh.kgs@gmail.com, ³raman1179@gmail.com,
⁴nandakishore.pujala@gmail.com, ⁵rajivkjs@gmail.com, ⁶priyanka.joshi@gehu.ac.in

DOI: 10.31838/ecb/2023.12.s3.361

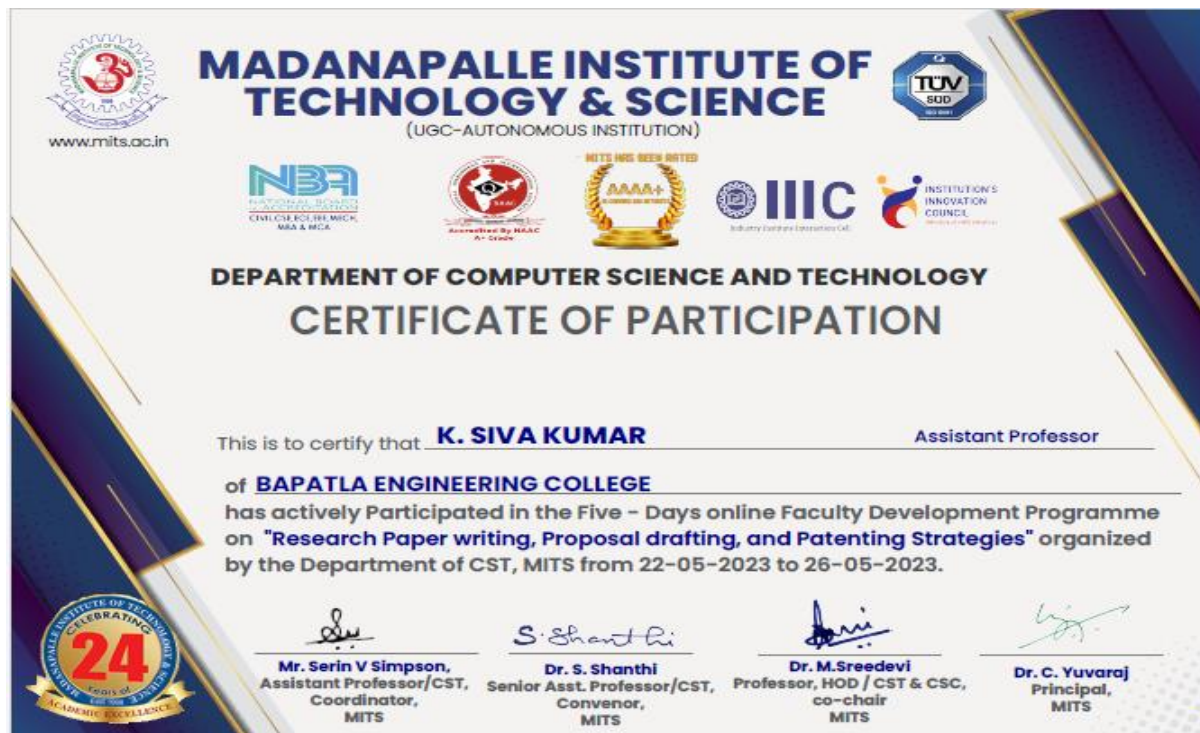
K.Arun Babu has successfully completed all the requirements to be recognized as **Google Cloud Certified Associate Cloud Engineer** has issued on 19-May-2023.



K. Siva Kumar has actively participated in the **5 DAY'S ONLINE NATIONAL LEVEL FACULTY DEVELOPMENT PROGRAM** on **"INTELLECTUAL PROPERTY RIGHTS"** organized by Department of Mechanical Engineering from 22nd May 2023 to 26th May 2023.



K. Siva Kumar has Participated in the **Five - Days online Faculty Development Program** on **"Research Paper writing, Proposal drafting, and Patenting Strategies"** organized by the Department of CST, MITS from 22-05-2023 to 26-05-2023.



JUNE MONTH ACHIEVEMENTS

K.SIVA KUMAR has attended **Online Short-Term Course** on “**Artificial Intelligence Machine Learning & Deep Learning**” conducted by the Department of Computer Science and Engineering, NIT Warangal in association with CCE, NIT Warangal from 29-05-2023 to 02-06-2023.



K.SIVA KUMAR has attended **Online Short-Term Course** on “**Exploratory Data analysis for Deep learning using Python and Microsoft Power BI**” conducted by the Department of Computer Science and Engineering, NIT Warangal in association with CCE, NIT Warangal from 29-05-2023 to 02-06-2023.



Pujala Nanda Kishore has participated in **One Week Virtual International FDP** on **"Research Insights on Recent Revolutions and Evolutions in Information Technology"** organized by the Department of CST, MITS from 12-06-2023 to 17-06-2023.



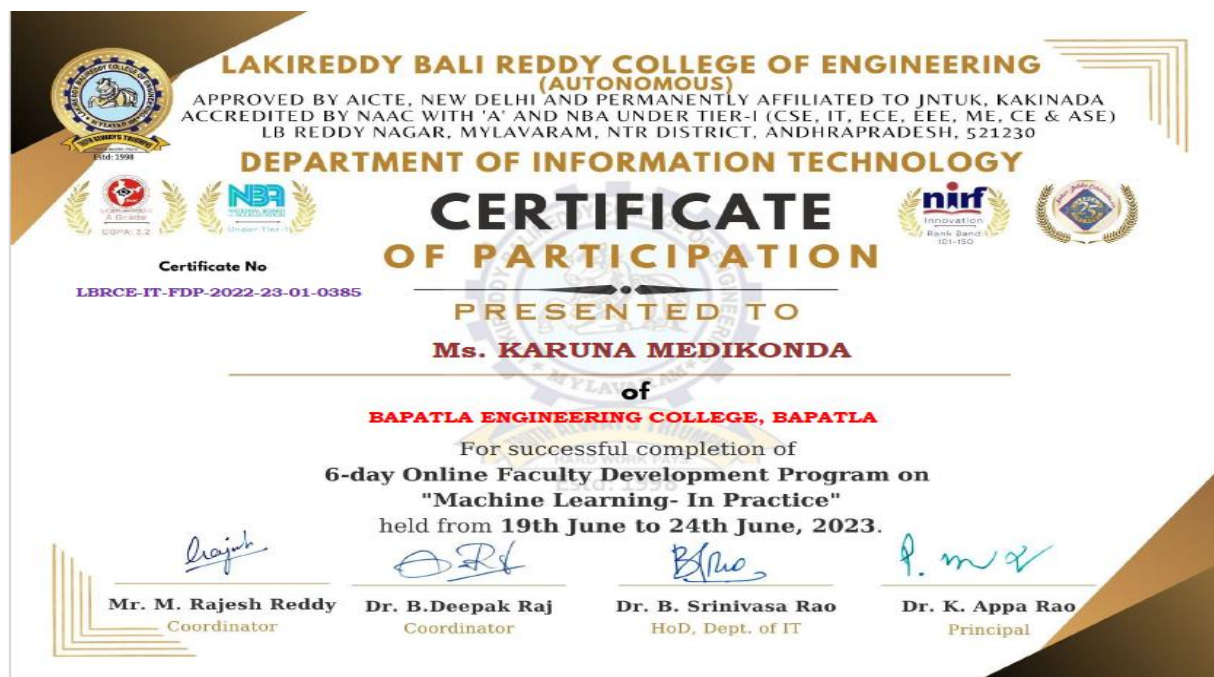
K.Ashok Babu has Participated in **One Week Virtual International FDP** on "**Research Insights on Recent Revolutions and Evolutions in Information Technology**" organized by the Department of CST, MITS from 12-06-2023 to 17-06-2023.



K. John Bunyan has Participated in **One Week Virtual International FDP** on "**Research Insights on Recent Revolutions and Evolutions in Information Technology**" organized by the Department of CST, MITS from 12-06-2023 to 17-06-2023.



Ms. KARUNA MEDIKONDA has participated Six Day Online Faculty Development Program on "Machine Learning- In practice" organized by Department of Information Technology LBRCE from 19-06-2023 to 24-06-2023.



Mr. GOPINADH ALAPATI has participated Six Day Online Faculty Development Program on "Machine Learning- In practice" organized by Department of Information Technology LBRCE from 19-06-2023 to 24-06-2023.



Ms. MANGAMMA CHOPPARA has participated Six Day Online Faculty Development Program on "Machine Learning- In practice" organized by Department of Information Technology LBRCE from 19-06-2023 to 24-06-2023.



Mr. K. SIVA KUMAR has participated Six Day Online Faculty Development Program on "Machine Learning- In practice" organized by Department of Information Technology LBRCE from 19-06-2023 to 24-06-2023.



Mr. SRIKANTH NALLURI has participated Six Day Online Faculty Development Program on "Machine Learning- In practice" organized by Department of Information Technology LBRCE from 19-06-2023 to 24-06-2023.



Srikanth Nalluri has participated in **National Level One Week Faculty Development Programme** on “**Recent Trends in Data Science for Engineering**” organized by Department of Information Technology, Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana in association with CBIT IEEE-RAS student branch chapter from 26th June 2023 to 30th June 2023.



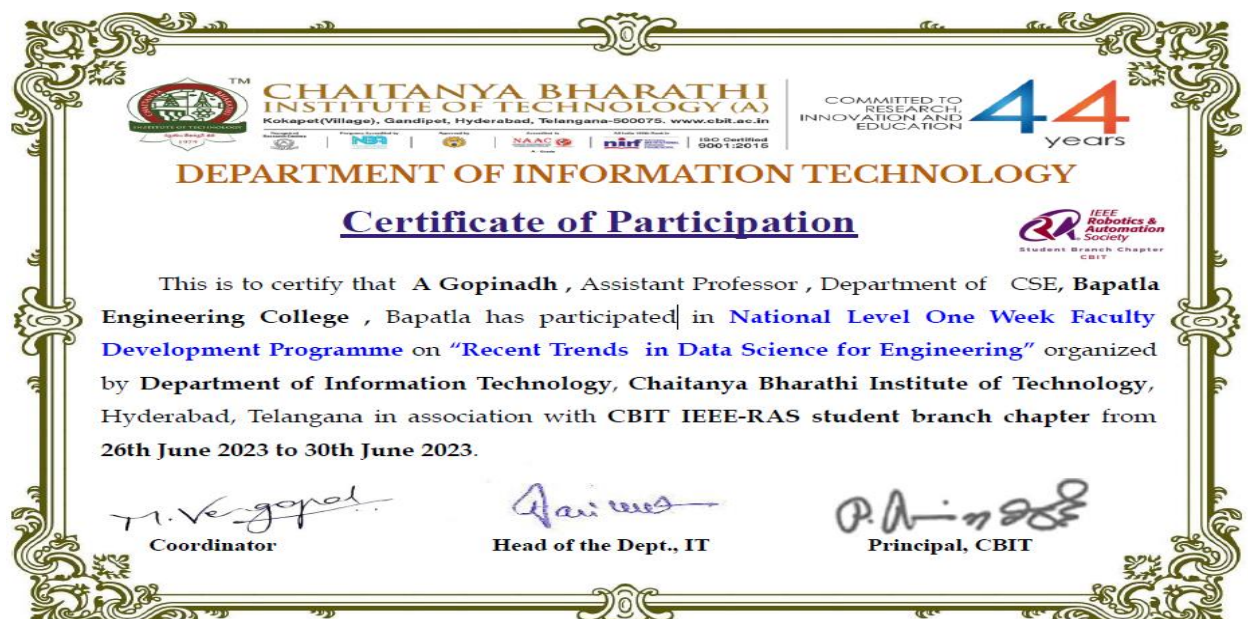
Dr.D.Kishore Babu has participated in **National Level One Week Faculty Development Programme** on “**Recent Trends in Data Science for Engineering**” organized by Department of Information Technology, Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana in association with CBIT IEEE-RAS student branch chapter from 26th June 2023 to 30th June 2023.



V.Naveen Kumar has participated in **National Level One Week Faculty Development Programme** on “**Recent Trends in Data Science for Engineering**” organized by Department of Information Technology, Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana in association with CBIT IEEE-RAS student branch chapter from 26th June 2023 to 30th June 2023.



A.Gopinadh has participated in **National Level One Week Faculty Development Programme** on “**Recent Trends in Data Science for Engineering**” organized by Department of Information Technology, Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana in association with CBIT IEEE-RAS student branch chapter from 26th June 2023 to 30th June 2023.



Mikkili Baburao has participated in **National Level One Week Faculty Development Programme** on “**Recent Trends in Data Science for Engineering**” organized by Department of Information Technology, Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana in association with CBIT IEEE-RAS student branch chapter from 26th June 2023 to 30th June 2023.



BAPATLA ENGINEERING COLLEGE::BAPATLA
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
Workshops/Webinars/FDP/Training Programs Conducted by Dept. of CSE
April - June 2023

S. No	Name of the Event	Title	Resource Persons	Organizers/Co-ordinator
1	Workshop	A Two-Day Workshop on ETHICAL HACKING & CYBER SECURITY	Dr. Pameel Arjun	Dept of CSE, CSE- CSY and CSE- DS.

A TWO-DAY WORKSHOP ON ETHICAL HACKING & CYBER SECURITY Organized by Department of Computer Science and Engineering and Department of Cyber Security & Data Science from 19-06-2023 to 20-06-2023.



**A 2-Day Workshop on
ETHICAL HACKING & CYBER SECURITY**
In Association with
National Information and Cyber Security Council
June 19th to June 20th, 2023
Organized by
**Department of Computer Science and Engineering
Department of Cyber Security & Data Science
Bapatla Engineering College, Bapatla, Andhra Pradesh**




ABOUT THE COLLEGE

Bapatla Engineering College (Autonomous) was established by Bapatla Education Society in the year 1981 and is reckoned for its academic excellence in engineering & sciences. It is a constituent institution of Acharya Nagarjuna University and is one of the best private engineering institutions in the southern region. BEC offers graduate courses in 9 disciplines with total intake of above 1000 students, 5 post-graduate courses in CSE, CAD/CAM(Mech), PE(EEE), SE(CIVIL) and CESP(ECE). The college is a little away from the din and bustle of Bapatla, a town with a historic and hoary past, about 75 KM. south of Vijayawada on Chennai-Vijayawada rail route. All departments have well equipped laboratories in addition to the common facilities of workshops, central library, state-of-the-art central computing facility, sports facilities and Innovation Centres that houses research and testing facilities for industrial projects and technology labs to promote inter-disciplinary research activities.

ABOUT THE DEPARTMENT

The Department of Cyber Security & Data Science and the Department of Computer Science and Engineering is established in 2020 & 1994 and have experienced, well-qualified, committed and motivated faculty with specializations in various streams. The department offers a 4 year B.Tech Program on CSE, CSE with Data Science, CSE with Cyber Security and Masters in CSE. The Department was accredited thrice by NBA of AICTE and NAAC.

THEME OF THE WORKSHOP

Computer security has, in turn, become much more important as all levels of an organization to utilize information systems security measures to avoid data tampering, fraud, disruptions in critical operations, and inappropriate of sensitive information. Cyber Security, Information Security and Ethical Hacking are the latest buzzword in the industry. This workshop covers various kinds of Ethical Hacking and Cyber Security Attacks and how to secure our data from such attacks.

COURSE CONTENTS

- > Introduction to Cyber Security
- > Basics of Networking
- > Login Bypass
- > Basic Attacks & Security
- > Malwares - Viruses & Trojans
- > Data Recovery
- > Google Hacks
- > Wireless Attacks
- > Steganography
- > Mobile Hacking
- > Cyber Laws & Security

ASSOCIATION WITH
National Information and Cyber Security Council

WHO CAN ATTEND
All Students of CSE & Cyber Security & Data Science of Bapatla Engineering College, Bapatla.

REGISTRATION FEE : FREE

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1. Dr. P.Pardhasaradhi, HoD, Dept. of CSE.
2. Prof. V.Chakrathar, HoD, Dept. of CH&DS.

Coordinator

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2. Mr. T.Nagarjuna, Asst. Prof.
3. Mr. K.Ashok Babu, Asst. Prof.
4. Mr. K.Sandeep Sandhi, Asst. Prof.

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2. Dr. PSV Vachaspati, Professor.
3. Dr. D.Kishore Babu, Assoc. Prof.

Organizing Committee

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27. Mr. Babu Rao, Asst. Prof.,
28. Dr. Venkata Lakshmi, Asst. Prof.,

FOR MORE DETAILS CONTACT

Mobile : T.Nagarjuna
9553456879

Web : www.becbapatla.ac.in





GPS Map Camera

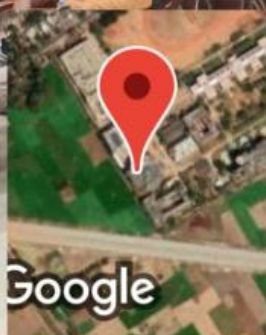
Bapatla, Andhra Pradesh, India

VCQR+J55, Malleswari, Bapatla, Andhra Pradesh 522102,
India

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Long 80.440427°

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