



Gayatri Vidhya Parishad College for Degree & PG Courses (A)

Visakhapatnam-45

Department of Computer Science and Applications

2021

Dr.D.Chandravathi

I/C HOD & Associate Professor



The Department of Computer Science and Applications aims to fulfill to provide quality education to the student community and to graduate them with highest potentiality on par with global standards.

At present there are 6 faculty members with 1 Professor, 2 Associate Professors, 3 Assistant Professors.

The faculty of the department are actively involved in collaborative research work in the following areas of Cryptography and Security ,Block Chain, IoT, Machine Learning.

1. Admissions:

Sl.No	Course	Admitted
1.	MCA	52/60
2.	M.Sc(CS)	18/40

2. Research And Development:

Guideship Allotment:

- ▶ **Prof.I.S.Pallavi** has been allotted two students from Andhra University as Guide from 2020.

Faculty Achievements:

S.No.	2020-21
Paper Publications	03
Conference Publications	01
FDP	15
Coursera	17

Paper Publications:

Sl.No	Name of the Faculty	Title of the Paper	Journal	Total Publications 2021
1.	Prof.I.S.Pallavi	<p>1.“New Authentication Method of Prime Factorization-Based Attacks Scheme using Brahmagupta Fibonacci identity -RSA Homomorphic Encryption Technique “.</p> <p>2. “Data Encryption using sorting Technique”</p>	<p>Communicated to scopus</p> <p>Communicated</p>	
2.	Dr.D.Chandravathi	<p>1. Performance Analysis of Modified RSAand RAS Homomorphic Encryption Scheme for Cloud Data Security”</p> <p>2“Defense Against Frequency Analysis In Elliptic Curve Cryptography Using K-Means Clustering. “</p> <p>3.New Authentication Method of Prime Factorization-Based Attacks Scheme using Brahmagupta Fibonacci identity -RSA Homomorphic Encryption Technique “</p>	<p>Published in IJAR,ISSN No: 2320-5407,Vol 5(2),275-281</p> <p>International Conference on Computing, Communication, and Intelligent Systems (ICCCIS)2021, IEEE conference. ISBN: 978-1-7281-8529-3 /19/\$33.00©2021 IEEE.</p> <p>Communicated to scopus</p>	1

Sl.No	Name of the Faculty	Title of the Paper	Journal	Total Publications 2021
3.	Smt.P.Ratna Pavani	<p>“Data Encryption using sorting Technique”</p> <p>A critical analysis of block-chain for ensuring data security .</p>	<p>Communicated</p> <p>ISSN:2651-4451, Turkish Journal of Mathematics.</p>	1
4.	Sri G.Hanumantha Rao	“Machine Learning Analysis on online social Networks”.	Communicated	
5.	Sri B.Divakar	“An IoT Based Smart Garbage Monitoring and Disposal Support System”.	<p>Published in: 2021 5th International Conference on Computing Methodologies and Communication (ICCMC)</p> <p>Date of Conference: 8-10 April 2021</p> <p>Date Added to IEEE <i>Xplore</i>: 06 May 2021</p> <p>ISBN Information:</p> <p>INSPEC Accession Number: 20592651</p> <p>DOI: 10.1109/ICCMC51019.2021.9418289</p> <p>Publisher: IEEE</p> <p>Conference Location: Erode, India</p>	1

iii)Ph.D reviews:

- Smt P.Ratna Pavani has completed project review from KL University in Nov 2020 .
- Sri G.Hanumantha Rao has Completed 0th review and Pre PHD Exam in March 2021 from KL University.
- Sri B.Divakar has Completed 0th review Ph.D in KL University.

iv)NPTEL/Coursera Courses

- All the faculties have enrolled for NPTEL courses and yet to write exams .
- Done various courses in coursera.

3. Faculty Achievements:

► i) FDP Attended by the Faculty:

Sl. No	Name of the Faculty	Courses/FDP Attended	Date
1.	Prof.I.S.Pallavi	1.NPTEL Course on Network security 2.Coursera course on Cryptography	Aug 22nd 2021 Dec 2020
2.	Sr.P.Venkata Rao	1. . Participated actively in Online Short-Term Course on Machine Learning for Data Science using Python conducted by Department of Computer Science and Engineering, NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL from 14-12-2020 to 23-12-2020 4. Participated in AICTE Sponsored One Week Online Short Term Training Program (STTP) Series on Blockchain & Its Applications (Multiphase) from 12th July - 17th July 2021.	14-12-2020 to 23-12-2020 12th July - 17th July 2021.

Sl.No	Name of the Faculty	Courses/FDP Attended	Date
3.	Dr.D.Chandravathi	<p>1.Coursera course on IOT and Cryptography</p> <p>2. Participated in a 6-Day National Level Online Faculty Development Program on “Multi technology” Jointly Organized by the Department of Computer Science & Engineering & Information technology, Sasi Institute of Technology & Engineering, Tadepalli gudem in association with National Youth Council of India and Brain-O-Vision Solutions India Pvt.Ltd. from 28-06-2021 to 03- 07-2021</p> <p>3. FDP on Quantum Computing 2021</p>	<p>Nov 2020</p> <p>28-06-2021 to 03-07-2021.</p> <p>19-07-2021 to 23-07-2021</p>

Sl.No	Name of the Faculty	Courses/FDP Attended	Date
4.	Smt.P.Ratna Pavani	<p>1.NPTEL Course on Network security</p> <p>2. Coursera course on Cryptography</p> <p>3. Participated actively in Online Short-Term Course on Machine Learning for Data Science using Python conducted by Department of Computer Science and Engineering, NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL from 14-12-2020 to 23-12-2020</p> <p>3. Participated in a 6-Day National Level Online Faculty Development Program on “Multi technology” Jointly Organized by the Department of Computer Science & Engineering, GMR Institute of Technology, Rajam in association with National Youth Council of India and Brain-O-Vision Solutions India Pvt.Ltd. from 28-06-2021 to 03-07-2021</p> <p>4. Participated in AICTE Sponsored One Week Online ShortTerm Training Program (STTP) Series on Blockchain & Its Applications (Multiphase) from 12th July - 17th July 2021.</p>	<p>Aug 22nd 2021</p> <p>Dec 2020</p> <p>14-12-2020 to 23-12-2020</p> <p>28-06-2021 to 03-07-2021</p> <p>12th July - 17th July 2021.</p>

Sl.No	Name of the Faculty	Courses/FDP Attended	Date
5.	Sri G.Hanumantha Rao	<p>1. Coursera course on Cryptography</p> <p>2. Participated actively in Online Short-Term Course on Machine Learning for Data Science using Python conducted by Department of Computer Science and Engineering, NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL from 14-12-2020 to 23-12-2020.</p> <p>3. Participated in a 6-Day National Level Online Faculty Development Program on “Multi technology” Jointly Organized by the Department of Computer Science & Engineering & Information technology , Sasi Institute of Technology & Engineering, Tadepalli gudem in association with National Youth Council of India and Brain-O-Vision Solutions India Pvt.Ltd. from 28-06-2021 to 03-07-2021.</p> <p>4. Participated in AICTE Sponsored One Week Online Short Term Training Program (STTP) Series on Blockchain & Its Applications (Multiphase) from 12th July - 17th July 2021.</p>	<p>Dec 2020</p> <p>14-12-2020 to 23-12-2020.</p> <p>28-06-2021 to 03-07-2021.</p> <p>12th July - 17th July 2021.</p>

Sl.No	Name of the Faculty	Courses/FDP Attended	Date
6.	Sri B.Divakar	<p>1. Participated actively in Online Short-Term Course on Machine Learning for Data Science using Python conducted by Department of Computer Science and Engineering, NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL from 14-12-2020 to 23-12-2020.</p> <p>2. SIX DAYS NATIONAL WORKSHOP ON RESEARCH METHODOLOGY by Queens College of Arts and Science for Women 19th to 24th, April 2021.</p> <p>3. Participated in a 6-Day National Level Online Faculty Development Program on “Multi technology” Jointly Organized by the Department of Computer Science & Engineering & Information technology, Sasi Institute of Technology & Engineering, Tadepalli gudem in association with National Youth Council of India and Brain-O-Vision Solutions India Pvt.Ltd. from 28-06-2021 to 03- 07-2021.</p> <p>5. Participated in AICTE Sponsored One Week Online Short Term Training Program (STTP) Series on Blockchain & Its Applications (Multiphase) from 12th July - 17th July 2021.</p>	<p>14-12-2020 to 23-12-2020</p> <p>19th to 24th, April 2021.</p> <p>28-06-2021 to 03-07-2021.</p> <p>12th July - 17th July 2021.</p>

ii) Seminars /Workshops attended by the faculty:

Sl.No	Name of the Faculty	Seminars /Workshops Attended	Date
1.	Sri B.Divakar	Advanced Technology Program: participated inthe training progrem on AI & ML conducted by TalentNest at Wipro 21st June - 25th June 2021	21st June - 25th June 2021

iii) Books published:

- ▶ **Dr.D.Chandravathi** published a book “ Enhanced Homomorphic Technique using cloud data security” in Lambard Publications .

4. Student Performance:

► i) Result Analysis 2021:

Sl.No	Course	Appeared	Passed	fail	%
1.	MCA	53	51	2	96
2.	M.Sc(CS)	15	13	2	96

▶ ii) Cloud Certification course Training:

- ▶ 30 days Cloud Certification Course Training was conducted online by **Mr. Sudheer Krishna Vandnapu**, one of our Alumni from MSc(CS). Total 10 students have done cloud projects as academic projects and all these 10 students have a chance to present in Microsoft google forums.
- ▶ Proposal to continue the cloud Certification for next batches also.

Cloud Certification student List :

SI.No	Registered.No	Student Name	Project Title	Course MCA/M.Sc(CS)	Academic Project? (Yes/No)
1	PG192002013	B. Sowjanya	Student Registeration	MCA	Yes
2	PG192002027	Mukul Makena	Inventory Management System	MCA	Yes
3	PG192002028	M.Jeevana	Supermarket Inventory	MCA	Yes
4	PG192002030	Muddu Raviteja	Leave Management System	MCA	Yes
5	PG192002043	Telu Jaya Mouli	Hospital Patient Appointment	MCA	Yes
6	PG192006005	Bhavani Darapu	Job application form	M.Sc(CS)	Yes
7	PG192006007	D.Aravind	Cab Booking	M.Sc(CS)	Yes
8	PG192006012	BhagyaSree Rapeti	Supermarket Inventory	M.Sc(CS)	Yes
9	PG192006017	V.Sai Rachana	Banking Details	M.Sc(CS)	Yes

iii) CTV session:

Catch the vision program is conducted regularly offline/ online for all the students of MCA/M.Sc(CS)

5. MOU:

- ▶ GVP and Inventrax has done an MOU on 12-07-2021 for 5 years.



Memorandum of Understanding



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6. Future Plans:

Academic Plan of MCA /MSc(CS) Department for the year (2021-22)

- ▶ Proposal to conduct 3-Day seminar/Workshop on **Quantum Cryptography in Sept/Oct 2021.**
- ▶ Proposal to organize to conduct 3-Day seminar/Workshop on **“Cyber security and Digital Forensic” Feb/March 2022.**

Research Projects Proposal:

- ▶ To apply Funding research projects under AICTE/ DST (various schemes CRG, SERB -TARE, SRG and EMEQ) by Prof.I.S.Pallavi and Dr.D.Chandravathi .
- ▶ To apply Funding research projects under AICTE/ DST (various schemes CRG, SERB -TARE, SRG and EMEQ) by Dr.D.Chandravathi and Prof.I.S.Pallavi

Thank you