

Criteria – 1

1. Faculty Information and Contributions: (Max Marks: 100)

SUB CRITERIA		MARKS
1.1	Regular Appointments of Teaching Faculty	20 Marks
1.2	Faculty Retention	20 Marks
1.3	Student Teacher Ratio (STR) and Cadre Ratio (CR)	30 Marks
1.3.1	Student Teacher Ratio (STR)	25 Marks
1.3.2	Cadre Ratio (CR)	05 Marks
1.4	Faculty Members with Ph.D Qualifications	10 Marks
1.5	Faculty Research Activities	20 Marks
1.5.1	Publications	10 Marks
1.5.2	Patents	05 Marks
1.5.3	Research Projects	05 Marks

1.1 Regular Appointments of Teaching faculty:(20 marks)

91 to 100%	-	20
81 to 90%	-	16
71 to 80%	-	12
61 to 70%	-	08
Minimum 60%	-	04
< 60%	-	00

Note: Teachers appointed through College Selection Committee by following the UGC/AICTE/PCI guidelines may be considered as regular appointed faculty. Faculty ratified by JNTUA prior to the introduction of College Selection Committee shall also be considered as regular faculty.

Department	CSE	ECE	EEE	INF	Average
Score/Marks	16	20	20	20	19

1.2 Faculty Retention:(20 marks)

91 to 100%	-	20
81 to 90%	-	16
71 to 80%	-	12
61 to 70%	-	08
51 to 60%	-	04
Minimum 50%	-	02

Note: Teachers appointed and working in the college for more than 3 years may be considered for the faculty retention.

It is mandatory that the institution shall have a minimum of 50% faculty retention for the last 3 years.

Department	CSE	ECE	EEE	INF	Average
Score/Marks	12	20	16	20	19

1.3 Student Teacher Ratio (STR) and Cadre Ratio (CR) :(30 marks)

1.3.1 Student Teacher Ratio (STR): (25 Marks)

For Accredited/Autonomous institutions:

1:15-15 Marks; 1:16-12 Marks; 1:17-09 Marks; 1:18-06 Marks; 1:19-03 Marks; 1:20-00 Marks;(Evaluation of STR for 1:15)

For non accredited/non autonomous institutions:

1:20-15 Marks; 1:21-12 Marks; 1:22-09 Marks; 1:23-06 Marks; 1:24-03Marks; 1:25-00 Marks; (Evaluation of STR for 1:20)

Department	CSE	ECE	EEE	INF	Average
Score/Marks	22	14	20	22	19.5

1.3.2 Cadre Ratio (CR): (05 Marks)

Engineering

1+2+6 For UG Engineering
1+1+1 For PG Engineering as per AICTE
1+2+6 For PG MBA&MCA

Pharmacy

1+2+6 For UG Pharmacy as per PCI
1+1+1 For PG Pharmacy

If Cadre Ratio is maintained as per AICTE/PCI norms - 05 marks
Otherwise - 00 marks

Note: However, institutions Deemed to be Universities/ institutions having Accreditation/Autonomy Status shall have **Faculty: Student Ratio** of 1:15 in Under Graduate Degree Level in Engineering and Technology/Post Graduate Degree Level in M.Tech./MBA/MCA and maintain Cadre Ratio as per AICTE/PCI in order to achieve Excellence in Technical Education & Research.

Department	CSE	ECE	EEE	INF	Average
Score/Marks	03	05	02	0	2.5

1.4 Faculty Members with Ph.D. Qualification:(10 marks)

For both UG and PG programs, Professors and Associate Professors with Ph.D. qualification must be available as per AICTE/PCI norms.

For every faculty member with Ph.D. qualification 2 marks subject to the maximum of 10 marks.

Note: In case of non-availability of qualified Professor an Associate Professor maybe considered.

Department	CSE	ECE	EEE	INF	Average
Score/Marks	08	10	06	02	6.5
Annexure No.	ANNEXURE - I				

1.5 Faculty Research Activities in the last 3 years:(20 marks)

1.5.1 Publications last 3 years: (10 marks)

For every 10 publications in SCI/SCIE/SCOPUS/UGC-CARE/PEER REVIEWED journals 2 marks subject to the maximum of 10 marks.

1.5.2 Patents last 3 years: (05 marks)

For every one Patent published/granted 2 marks and 1 mark for each patent applied subject to the maximum of 05 marks.

1.5.3 Research Projects last 3 years: (05 marks)

For every completed/ongoing Research Project with a project cost of Rs.2 to 10 Lakhs 1 mark and Rs. 10 Lakhs and above 2 marks subject to the maximum of 05 marks.

Department	CSE	ECE	EEE	INF	Average
Score/Marks	12	16	15	6	12.25
Annexure No.	ANNEXURE – II				

Criteria – 2

2. Accreditations and Rankings: (Max. Marks: 100)

SUB CRITERIA		MARKS
2.1	Valid National Board of Accreditation (NBA)	50 Marks
2.2	Valid National Assessment and Accreditation (NAAC)	30 Marks
2.3	Valid National Institutional Ranking Framework (NIRF)	10 Marks
2.4	Valid UGC Autonomous Status	10 Marks

2.1 Valid NBA: (50 Marks)

2.1.1 Engineering Colleges:

(i) For UG Programs – (40 Marks)

Minimum 2UG programs accredited – 25 marks;
for each additional UG program accredited 5 marks subject to maximum of 40 marks.

(ii) For PG Programs – (10 Marks)

Minimum 1 PG program accredited 5 marks;
for each additional PG program accredited 5 marks subject to maximum of 10 marks.

Department	CSE	ECE	EEE	INF	Average
Score/Marks	35	35	35	35	35

2.1.2 Pharmacy Colleges:

For UG Programs- (50 Marks)

For UG Program in Pharmacy accredited– 50 Marks

2.2 Valid NAAC: (30 Marks)

Any A Grade - 30 Marks

Any B Grade -25 Marks

C Grade - 20 Marks

Provisional NAAC Accredited - 15 Marks

No NAAC Accreditation - Zero Marks

Department	CSE	ECE	EEE	INF	Average
Score/Marks	30	30	30	30	30

2.3 Valid NIRF (Previous Academic year) :(10 Marks)

Engineering Colleges

Rank band in 1-200 - 10 Marks

Rank band in 201-250 - 08 Marks

Rank band in 251-300 - 06 Marks

Not listed in NIRF Ranking - Zero Marks

Department	CSE	ECE	EEE	INF	Average
Score/Marks	0	0	0	0	0

Pharmacy Colleges

Rank band in 1-100 - 10 Marks
Rank band above 100 - 05 Marks
Not listed in NIRF Ranking - Zero Marks

2.4 Valid UGC Autonomous Status: (10 Marks)

Valid UGC Autonomous Status - 10 Marks
No Valid UGC Autonomous Status - Zero Marks

Department	CSE	ECE	EEE	INF	Average
Score/Marks	0	0	0	0	0

Criteria – 3

3. Computers and Other Facilities: (Max. Marks: 100)

S.No.	SUB CRITERIA	MARKS
3.1	Computer Student Ratio (CSR)	45 Marks
3.1.1	Computers	30 Marks
3.1.2	Software	10 Marks
3.1.3	Printers	05 Marks
3.2	Internet Facility	20 Marks
3.3	Examination Branch	15 Marks
3.3	Other Facilities	20 Marks

3.1 Computer Student Ratio (CSR):(45 Marks)

3.1.1 Computers: (30 Marks)

For UG programs in Engineering	-	1:6
For PG programs in Engineering	-	1:4
For UG programs in Pharmacy	-	1:10
For PG programs in Pharmacy	-	1:6

If CSR is maintained as per AICTE/PCI norms	- 25 marks
For better CSR (1:3 for UG and 1:2 for PG)	- 30 marks

Department	CSE	ECE	EEE	INF	Average
Score/Marks	25	25	25	30	26.25

3.1.2 Software: (10 Marks)

Engineering

- (a) legal system software - 03 (for Engineering)
 - (b) legal application software - 20 (for Engineering)
- (Includes plagiarism checking software)

Pharmacy

As per PCI norms

Note: Utilization of open-source software shall be encouraged.

If Open-Source system/application software available - 05 marks

In addition to open-source software, legal system/application software is also available - 10 marks

Department	CSE	ECE	EEE	INF	Average
Score/Marks	10	10	03	10	8.25

3.1.3 Printers: (05 Marks)

5% of total computers should be available for Engineering as per AICTE norms.

1 Printer for every 10 Computers for Pharmacy as per PCI norms

Note: at least one printer to be A1 size colour printer/plotter.

If printers available as per AICTE/PCI norms - 3 marks

If printers available twice the number as per AICTE/PCI - 5 marks

Department	CSE	ECE	EEE	INF	Average
Score/Marks	05	05	05	05	05

3.2 Internet Facility:(20 marks)

As per AICTE norms,

	<u>Intake</u>	<u>Internet Bandwidth</u>
Up to -	300	100 Mbps
301 -	600	300 Mbps
601 -	900	500 Mbps
> 900		1Gbps

As per PCI norms,

<u>Intake</u>	<u>Internet Bandwidth</u>
100	4 Mbps

Internet facility as per the above Bandwidth - 15 marks

If Bandwidth available is twice or more than twice- 20 marks

Department	CSE	ECE	EEE	INF	Average
Score/Marks	15	15	15	15	15

3.3 Examination Branch: (15 Marks)

For Engineering, as per AICTE norms,

- (i) High Speed Copier Machines - 2 Nos. (Minimum)
- (ii) Printers - 4 Nos. (Minimum)
- (iii) Internet connection exclusively for the Examination Branch -100 Mbps (minimum)
- (iv) One Separate Room exclusively for the Confidential work
- (v) High end Desktop systems - 5 Nos. (Minimum)
- (vi) Colour Printer - 1 No. (Minimum)
- (vii) Fax Facility
- (viii) Portable Generator - 1 No.
- (ix) UPS
- (x) 2 KVA Stabilizer - 1 No.

Department	CSE	ECE	EEE	INF	Average
Score/Marks	15	10	10	14	12.25

For Pharmacy, as per PCI norms,

- (i) High Speed Copier Machines -1 No. (Minimum)
- (ii) Printers - 2 Nos. (Minimum)
- (iii) Internet connection exclusively for the Examination Branch -40 Mbps (minimum)
- (iv) One Separate Room exclusively for the Confidential work
- (v) High end Desktop systems - 2 Nos. (Minimum)
- (vi) Colour Printer - 1 No. (Minimum)
- (vii) Fax Facility

- (viii) Portable Generator - 1 No.
- (ix) UPS
- (x) 2 KVA Stabilizer - 1 No.

If all the above facilities are available - 10 marks
 More than required as per norms - 15 marks

3.4 Other Facilities:(20 Marks)

- (i) *RO Water supply
- (ii) *Generator
- (iii) Sports facilities with Physical Director
- (iv) *Placement Cell with Placement Officer
- (v) *Women Protection Cell with In-charge
- (vi) NSS unit with an official Coordinator
- (vii) *Anti-Ragging Cell with an In-charge
- (viii) Entrepreneur Development cell with an In-charge
- (ix) Girls Waiting Room
- (x) *Barrier Free Environment
- (xi) *CC Cameras - Number as per the requirement of the college
- (xii) *Biometric Machines - Number as per the requirement of both Staff and Students

Two marks for each facility on producing proper documents subject to the maximum of 20 marks

Note: The facilities with (*) are mandatory facilities. Absence of these facilities will result in deducting 2 marks for each of these facilities from the total marks.

Department	CSE	ECE	EEE	INF	Average
Score/Marks	20	20	20	20	20

Criteria – 4

4. Library and Laboratory Facilities: (Max. Marks: 100)

S.No.	SUB CRITERIA	MARKS
4.1	Library Facility	50 Marks
4.1.1	Number of Titles	15 Marks
4.1.2	Number of Volumes	15 Marks
4.1.3	Reading Room Facility	05 Marks
4.1.4	Digital Library	05 Marks
4.1.5	Journals(Printed/e-Journals)	05 Marks
4.1.6	e-Books	05 Marks
4.2	Laboratory Facility	50 Marks
4.2.1	Equipment for the Laboratories as per the Curriculum	30 Marks
4.2.2	Equipment for the Laboratories of Innovation and Research	10 Marks
4.2.3	Usage of Virtual labs as part of syllabus	10 Marks

4.1 Library Facility: (50 Marks)

4.1.1 No. of Titles: (15 Marks)

100 at the time of starting, increased 50/Course annually up to 10 years will be the minimum stock of Book Titles.

Number of Titles as per the AICTE/PCI Norms - 10 marks
more than required - 15 marks

Department	CSE	ECE	EEE	INF	Average
Score/Marks	13	10	15	15	13.25
Annexure No.	ANNEXURE - III				

4.1.2 No. of Volumes: (15 Marks)

500xB at the time of starting (where B is No. of Divisions) increased 250/Course annually up to 10 years will be the minimum Stock of Book Volumes.

Number of Volumes as per the AICTE/PCINorms - 10 marks
more than required - 15 marks

Note: After 10 years as per affiliating body curriculum and syllabus, the older edition books shall be replaced with latest edition by 5% of the total minimum books required for that program.

Department	CSE	ECE	EEE	INF	Average
Score/Marks	13	10	15	15	13.25
Annexure No.	ANNEXURE - III				

4.1.3 Reading Room Capacity: (05 Marks)

- 15% of total Students (Maximum of 150) for UG
- 25% of total students (Maximum of 100) for PG

Reading Room Capacity as per AICTE/PCI Norms - 03 marks
Twice or more than twice the Capacity - 05 marks

Department	CSE	ECE	EEE	INF	Average
Score/Marks	03	03	03	05	3.5

4.1.4 Digital Library: (05 Marks)

Note: (i) Multimedia computers (Minimum 10% of total Students) with internet surfing located in the reading room to access the online courses from the platforms like NPTEL, SWAYAM & SWAYAM PRABHA etc. shall be made available in the Digital Library.

(ii) Reprographic facility and document scanning facility are essential in the Library.

(iii) Library Automation software including bar coding is desirable.

The multimedia computers along with other facilities as per the norms of AICTE/PCI available - 03 marks

more than twice the number of multimedia computers and other facilities are available - 05 marks

Department	CSE	ECE	EEE	INF	Average
Score/Marks	05	03	03	05	4

4.1.5 Journals (Printed/e-Journals): (05 Marks)

Minimum as per AICTE/PCI - 3 Marks

Above - 5 Marks

Otherwise -Zero

Department	CSE	ECE	EEE	INF	Average
Score/Marks	03	03	05	05	4
Annexure No.	ANNEXURE - IV				

4.1.6 e-Books: (05 Marks)

Minimum as per AICTE/PCI - 3 Marks

Above - 5 Marks

Otherwise - Zero

Department	CSE	ECE	EEE	INF	Average
Score/Marks	03	03	05	05	4
Annexure No.	ANNEXURE - V				

4.2 Laboratory Facility: (50 Marks)

Note: The Laboratories shall have Equipment and software as appropriate for experiments as stated suitable for the requirements of affiliating University Curriculum. It is desired that the number of experimental set-ups be so arranged that maximum three students (i.e.1:3) shall work on one set-up for hardware laboratories and 1:1 for software laboratories.

4.2.1 Equipment for the Laboratories as per the Curriculum: (30 Marks)

As per the Curriculum of Affiliating University, the equipment and software required shall be made available in the respective Laboratories Semester wise.

Equipment as per syllabus - 25 marks

Equipment beyond Curriculum (Specialized Equipment) - 30 marks

Department	CSE	ECE	EEE	INF	Average
Score/Marks	27	30	30	25	28

4.2.2 Equipment for Laboratories of Innovation and Research: (10 Marks)

If the institution is a recognized research centre, then the equipment and software appropriate for doing innovative research may be considered.

If equipment and software available for doing innovative research - 05 marks

In addition to this, if any funding agency supporting such laboratories - 10 marks

Department	CSE	ECE	EEE	INF	Average
Score/Marks	10	10	05	07	8

4.2.3 Usage of Virtual labs as part of syllabus (10 Marks)

Department	CSE	ECE	EEE	INF	Average
Score/Marks	08	10	08	07	8.25

Criteria - 5

5. Institution and Students Performance: (Max. Marks: 100)

S.No.	SUB CRITERIA	MARKS
5.1	Average Admissions for the last 3 years	20 Marks
5.2	Academic Performance of the Students for the last 3 years	20 Marks
5.3	Student Activities and Achievements for the last 3 years	30 Marks
5.3.1	Paper Publications	10 Marks
5.3.2	Participation in Symposia/Conferences	10 Marks
5.3.3	Innovative Projects	10 Marks
5.4	Student Placements, GATE/GPAT Ranks, Enrolment for Higher Studies and Entrepreneurship/Start-Up for the last 3 years	30 Marks
5.4.1	Placements	10 Marks
5.4.2	GATE/GPAT Ranks	10 Marks
5.4.3	Enrolment for Higher Studies	05 Marks
5.4.4	Entrepreneurship/Start-Up	05 Marks

5.1 Average Admissions for the last 3 years:(20 Marks)

91 to 100%	- 20
81 to 90%	- 16
71 to 80%	- 12
61 to 70%	- 08
Minimum 60%	- 04
< 60%	- Zero

Department	CSE	ECE	EEE	INF	Average
Score/Marks	20	20	20	16	19
Annexure No.	ANNEXURE - VI				

5.2 Academic Performance(Pass Percentage) of the students for the last 3 Years:(20 Marks)

91 to 100%	- 20
81 to 90%	- 16
71 to 80%	- 12
61 to 70%	- 08
Minimum 60%	- 04
< 60%	- Zero

Department	CSE	ECE	EEE	INF	Average
Score/Marks	20	16	16	19	17.75
Annexure No.	ANNEXURE - VII				

5.3 Student Activities and Achievements for the last 3 years:(30 Marks)

5.3.1 Paper Publications: (10 Marks)

For every 10 papers 2 marks subject to the maximum of 10 marks

Department	CSE	ECE	EEE	INF	Average
Score/Marks	10	02	00	02	3.5
Annexure No.	ANNEXURE - VIII				

5.3.2 Participation in Symposia/Conferences: (10 Marks)

For every one symposium/conference 2 marks subject to the maximum of 10 marks

Department	CSE	ECE	EEE	INF	Average
Score/Marks	06	04	04	05	4.75
Annexure No.	ANNEXURE - IX				

5.3.3 Innovative Projects: (10 Marks)

For every one innovative project 2 marks subject to maximum of 10 marks

Department	CSE	ECE	EEE	INF	Average
Score/Marks	10	04	06	09	7.25
Annexure No.	ANNEXURE - X				

5.4 Student Placements, GATE/GPAT Ranks, Enrolment for Higher Studies and Entrepreneurship/Start-Up for the last 3 years: (30 Marks)

5.4.1 Placements: (10 Marks)

91 to 100%	- 10
81 to 90%	- 08
71 to 80%	- 06
61 to 70%	- 04
Minimum 60%	- 02
< 60 %	- Zero

Department	CSE	ECE	EEE	INF	Average
Score/Marks	04	04	02	04	3.5

5.4.2 GATE/GPAT Ranks: (10 Marks)

For every 10 students qualified in GATE/GPAT 2 marks subject to the maximum of 10 marks

Department	CSE	ECE	EEE	INF	Average
Score/Marks	02	02	00	00	1

5.4.3 Enrolment for Higher Studies: (05 Marks)

For every 5 students enrolled for higher studies 1 mark subject to the maximum of 5 marks

Department	CSE	ECE	EEE	INF	Average
Score/Marks	05	03	01	03	3

5.4.4 Entrepreneurship/Start-Up: (05 Marks)

For every successful Entrepreneurship/Start-Up 1 mark subject to the maximum of 5 marks

Department	CSE	ECE	EEE	INF	Average
Score/Marks	01	00	00	01	0.5

CRITERIA-WISE SCORE/MARKS


Department	Computer Science & Engineering			Electronics & Communication Engineering			Electrical & Electronics Engineering			Information Technology			<i>Over all Criteria wise</i>		
	Score	Weight	Weighted Score	Score	Weight	Weighted Score	Score	Weight	Weighted Score	Score	Weight	Weighted Score	Avg.	Weight	Weighted Score
CRITERIA-1	73	0.3	21.9	85	0.3	25.5	79	0.3	23.7	70	0.3	21.0	76.75	0.3	23.025
CRITERIA-2	65	0.2	13.0	65	0.2	13.0	65	0.2	13.0	65	0.2	13.0	65.00	0.2	13.000
CRITERIA-3	90	0.1	9.0	85	0.1	8.5	78	0.1	7.8	94	0.1	9.4	86.75	0.1	8.675
CRITERIA-4	85	0.3	25.5	82	0.3	24.6	89	0.3	26.7	89	0.3	26.7	86.25	0.3	25.875
CRITERIA-5	78	0.1	7.8	55	0.1	5.5	49	0.1	4.9	59	0.1	5.9	59.25	0.1	5.925
Total Weighted Score			77.2			77.1			76.1			76.0			76.50



GAYATRI VIDYA PARISHAD
COLLEGE OF ENGINEERING FOR WOMEN
 (Affiliated to JNTUK, Kakinada, Approved by AICTE, New Delhi)
 (Accredited By National Board of Accreditation (NBA) & NAAC with 'A' Grade)

Department of Information Technology (IT)
Academic Year: 2023-24

Sl.No	Name of the Faculty	Qualification	Designation
1	Dr.M.Bhanu Sridhar	M.Tech PhD	Associate Professor
2	Sri C Srinivas	M.Tech,(PhD)	Associate Professor
3	Mrs. R Sridevi	M.Tech,(PhD)	Assistant Professor
4	Mrs. P Sridevi	M.Tech	Assistant Professor
5	Mr.CHVV D.Prasad	M.Tech,(PhD)	Assistant Professor
6	Mrs. M Deepthi	M.Tech,(PhD)	Assistant Professor
7	Mr.G.Tirupati	M.Tech,(PhD)	Assistant Professor
8	Mrs.R.Prasanna Kumari	M.Tech	Assistant Professor
9	Mr.G.Appaji	M.Tech	Assistant Professor


 Head of Department
 Dept. of Information Technology
 GVP College of Engineering for Women
 Madhurawada, Visakhapatnam-48



Gayatri Vidya Parishad College of Engineering for Women

Madhurawada, Visakhapatnam

(Affiliated to JNTUK, Approved by AICTE, New Delhi)

Department of Computer Science and Engineering (CSE)

List of Faculty with Ph.D. degree

S.No.	Name of full time teacher with Ph.D.	Qualification (Ph.D.) and Year of obtaining	Whether recognised as research Guide for Ph.D.	Years of the teacher's Recognition as Research Guide	Till serving the Institution
1	Dr. PVSL JAGADAMBA	AMIE., M.Tech., Ph.D. 29/09/2014	Yes	2021	Yes
2	Dr. N B VENKATESWARLU	B.Tech.,M. Tech., Ph.D. 21/01/1993	Yes	2007	Yes
3	Dr. N SHARMILI	B.Tech.,M. Tech., Ph.D. 29/04/2016	Yes	2021	Yes
4	Dr. V LAKSHMAN RAO	B.Tech.,M. Tech., Ph.D. 17/10/2022	No	-	Yes

Alaksh
Head of Department
Dept. of Computer Science & Engineering
GVP College of Engineering for Women
Madhurawada, Visakhapatnam-48

8/10/2022

ECE

10 may 2024

Faculty Members with Ph.D Qualifications:

Academic Year	Ph.D Holder Count
2023-2024	7

S.No	Name
1	Dr.RK Goswami
2	Dr.K. Rajarajeswari
3	Dr.P.M.K.Prasad
4	Dr.L.Ganesh
5	Dr.B. Vijayalakshmi
6	Dr.D. V.A.N.Ravi Kumar
7	Dr.P.V Dileep Bhumireddi

HEAD
DEPARTMENT OF
ELECTRONICS AND COMMUNICATION ENGINEERING
G. V. P. COLLEGE OF ENGINEERING FOR WOMEN
CHIRALWADA, VITSAKHAPATNAM - 530 028



GAYATRI VIDYA PARISHAD COLLEGE OF ENGINEERING FOR WOMEN

KOMMADI, MADHURAWADA, VISAKHAPATNAM - 530 048

(APPROVED BY AICTE, NEW DELHI, AFFILIATED TO ANDHRA UNIVERSITY, VISAKHAPATNAM)

(ACCREDITED BY NATIONAL BOARD OF ACCREDITATION [NBA] FOR B.TECH CSE, ECE AND IT - VALID FROM 2019-22 AND 2022-25)

(ACCREDITED BY NATIONAL BOARD OF ACCREDITATION [NBA] FOR B.TECH EEE VALID FROM 2023-24 TO 2025-2026)

(ACCREDITED BY NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL [NAAC] WITH A GRADE - VALID FROM 2022-27)

(Phone: +91-891-2739144, 2739124, 2719125, 2719127 Email Id: gvpcew@gmail.com , info@gvpcew.ac.in)

EAPCET
CODE
GVPW

Department of Electrical and Electronics Engineering

List of Faculty with Ph.D Qualification

(EEE)

S.No	Name of the Full-time teacher	Designation	Year of appointment	Nature of appointment (Against Sanctioned post, temporary, permanent)	Name of the Department	Total years of Experience in the same institution (upto Sep 30th)	Is the teacher still serving the institution/If not last year of the service of Faculty to the Institution
1	Dr R.V.S. Lakshmi Kumari	Associate Professor	25-05-2018	Permanent	EEE	5 years 4 months	Yes
2	Dr.Devendra Potnuru	Associate Professor	09-05-2018	Permanent	EEE	5 years 4 months	Yes
3	Dr. A.S.V. Vijayalakshmi	Assistant Professor	29-06-2009	Permanent	EEE	14 years 3 months	Yes

1.4
6 marks.

Head

ept. of Electrical & Electronics Engineering
J.V.P. College of Engineering for Women
Madhurawada
VISAKHAPATNAM-530 048

21 papers
10 marks

GAYATRI VIDYA PARISHAD COLLEGE OF ENGINEERING FOR WOMEN

KOHIMADI, MADHURAWADA, VISAKHAPATNAM - 530 048

(APPROVED BY AICTE, NEW DELHI, AFFILIATED TO ANDHRA UNIVERSITY, VISAKHAPATNAM)

(ACCREDITED BY NATIONAL BOARD OF ACCREDITATION [NBA] FOR B.TECH CSE, ECE AND IT - VALID FROM 2019-22 AND 2022-25)

(ACCREDITED BY NATIONAL BOARD OF ACCREDITATION[NBA] FOR B.TECH EEE VALID FROM 2023-24 TO 2025-2026)

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DEPART OF COMPUTER SCIENCE AND ENGINEERING

Number of Journal Publications

Calendar Year	Number Of Publications
2023	8
2022	8
2021	5
2020	31
2019	7
Total	59

Alexis
 Head of Department
 Dept. of Computer Science & Engineering
 GVP College of Engineering for Women
 Madhurawada, Visakhapatnam-48



GAYATRI VIDYA PARISHAD COLLEGE OF ENGINEERING FOR WOMEN

Madhurawada :: Visakhapatnam – 530 048

(Approved by AICTE, New Delhi and Affiliated to Andhra University, Visakhapatnam)

Accredited by NAAC with “A” from 2022 to 2027

CSE, ECE and IT Courses Accredited by NBA (2019-2022) and Re-accredited by NBA (2022-2025)

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List of CSE Department Publications in the Year - 2023

S.No	Title of paper	Name of the author/s	Department of the Teacher	Name of Journal	Volume and issued	Indexing SCI/ Scopus/ UGC/ others)	Year of publication
1	Unveiling the Role of Social Media in Mental Health: A GAN-based Deep Learning Framework for Suicide Prevention	Kancharapu Rohini, Ayyagari Sri Nagesh	CSE	International Journal of Intelligent Systems and Applications in Engineering (IJISAE)	Volume: 11 Issue: 3 pp489-502	Scopus	Jul, 2023
2	Crop Yield Prediction Using Gradient Boosting Neural Network Regression Model	1Purushotam Naidu k, 2Dr. V. Lakshmana Rao, 3Chaitanya Sree Gunturu, 4Akkina Niharika, 5Ch. Rohitha Anupama, 6G. Srivalli	CSE	International Journal on Recent and Innovation Trends in Computing and Communication	Volume: 11 Issue: 3	Scopus	2023
3	A comparative study on word embedding techniques for suicide prediction on COVID-19 tweets using deep learning models	Kancharapu Rohini, Ayyagari Sri Nagesh	CSE	International Journal of Information Technology (IJIT)	Volume 15 Issue 6	Scopus	Jun, 2023
4	“Earthworm Optimization with Improved SqueezeNet Enabled Facial Expression Recognition Model”	N. Sharmili, Saud Yonbawi, Sultan Alahmari, E. Laxmi Lydia et al,	CSE	Computer Systems Science and Engineering	Volume 15 Issue 5	Scopus	2023
5	Duck optimization with enhanced capsule network based citrus disease detection for sustainable crop management	A. Arthi, N. Sharmili, Sara A. Althubiti, E. Laxmi Lydia, Meshal Alharbi, Ahmed Alkhayat, Deepak Gupta	CSE	Sustainable Energy Technologies and Assessments	Volume 58 Issue 103355	Scopus	Accepted 27 June 2023
6	Hybrid Optimization of OLSR Routing Protocol in MANETs: Uniting Genetic Algorithm and Particle Swarm Optimization	Udaya Kumar Addanki, B. Hemantha Kumar	CSE	International Journal of INTELLIGENT SYSTEMS AND APPLICATIONS IN ENGINEERING	Volume 11 Issue3	Scopus	2023
7	A Comparative Analysis of OLSR Routing Protocol based on PSO and Cuckoo Search Optimization (CSO) in MANETs	Udaya Kumar Addanki, B. Hemantha Kumar	CSE	International Journal on Recent and Innovation Trends in Computing and Communication	Volume: 11 Issue: 8s	Scopus	2023
8	An Optimized Node Level Lightweight Security Algorithm for Cloud Assisted-IoT	S.Sumahasan Dr.D.RajyaLakshmi	CSE	International Journal on Recent and Innovation Trends in Computing and Communication	Volume: 11 Issue: 9s	Scopus	2023

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2022

S.No.	Name of the Faculty	Title of the paper	Name of the conference	National / International	Year of publication
1	Mrs. K Rohini	Prediction of Human Suicidal Tendency based on Social Media using Recurrent Neural Networks through LSTM	2022 International Conference on Computing, Communication and Power Technology (IC3P)	International	Jun, 2022
2	Mrs. K Rohini	Textual Dissection of Live Twitter Reviews on Corona Vaccines using Various Machine Learning Algorithms	2022 International Conference on Breakthrough in Heuristics And Reciprocation of Advanced Technologies (BHARAT)	International	Oct,2022
3	PVSL Jagadamba	An Improved Bot Identification with Imbalanced Data using GG-XGBoost	2nd International Conference on Intelligent 2022	International	2022
4	PVSL Jagadamba	Programmed Speech to Text Summarization Using Graph Based Algorithm	San Francisco , United States June 02-03, 2022.	International	2022


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2021

S.No.	Name of the teacher	Title of the paper	Name of the conference	National / International	Year of publication
1	N.Sharmili, M.BhanuSridhar	“FOOD TRACEABILITY IN SUPPLY CHAIN USING THE CONCEPT OF BLOCKCHAIN”	Accepted for presentation in the 2021 International Conference on Artificial Intelligence and Blockchain Technology (AIBT2021) to be held in Beijing, China.	International	June 25-June 27, 2021.

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List of CSE Department Publications in the Year - 2022

S.No	Title of paper	Name of the author/s	Department of the Teacher	Name of Journal	Volume and issued	Indexing SCI/ Scopus/ UGC/ others)	Year of publication
1	A Distinctive Approach on the Usage of Edge Computing Concept on Humidity Dataset through Regression Analysis	M. Bhanu Sridhar, Y. Srinivas	CSE	International Journal of Computer Science and Mobile Computing	Volume: 11 Issue: 1		Jan,2022
2	A Node-Level Security Algorithm for Cloud Assisted-IoT	1Mr. S. Sumahasana, 2Dr. D. Rajyalakshmi	CSE	NeuroQuantology	Volume 20 Issue 11	Scopus	
3	Security Attacks DoS/DDoS attack Detection in Networks	Mr.G.Sankara Rao,Dr.P.Krishna Subbarao	CSE	NeuroQuantology	Volume 20 Issue 11	Scopus	September 2022
4	Ensemble of Handcrafted and Deep Learning Model for Histopathological Image Classification	Vasumathi Devi Majety ¹ , N. Sharmili ² , Chinmaya Ranjan Pattanaik ³ , E. Laxmi Lydia ⁴ et al.	CSE	Computers, Materials & Continua	Volume 73 Issue 2	Scopus	Jun-22
5	An Optimized Ensemble XGBoost Regression Model for Crop Yield Prediction Using Correlation-based Feature selection technique	K.Purushottam Naidu Dr.P.Krishna Subbarao Dr.MHRM Krishna Prasad	CSE	NeuroQuantology	Volume 20 Issue 6	Scopus	Jun-22
6	A Study of the After-Effects of COVID-19 with an Emphasis on Potential Cardio-Thoracic Diseases through a Machine Learning Outlook	M. Bhanu Sridhar, L. Gopika Varshini, L. Gopika Varshini P.V.S.LAKSHMI JAGADAMBA	CSE	International Journal of Computer Science and Mobile Computing	Vol.11 Issue.10, pg. 119-126		22 October 2023
7	Enhancement OLSR Routing Protocol using Particle Swarm Optimization (PSO) and Genetic Algorithm (GA) in MANETS	Udaya Kumar Addanki, B. Hemantha Kumar	CSE	IJCSNS International Journal of Computer Science and Network Security	VOL.22 No.4,	Web of Science	2022
8	Identification Of Parkinson's Disease By Way Of Machine Learning Algorithms	P.V.S.LAKSHMI JAGADAMBA	CSE	International Journal of Creative, Research and Thoughts (IJCRT)	Volume 10, Issue 11, pp- b778-b786		22 November 2023


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List of CSE Department Publications in the Year - 2021

S.No	Title of paper	Name of the author/s	Department of the Teacher	Name of Journal	Volume and issued	Indexing SCI/ Scopus/ UGC/ others)	Year of publication
1	Smart-farming:IoT Based Crop Prediction System using Machine Learning Techniques	Purushotam Naidu K, Dr.P Krishna Subba Rao, Dr.MHM Krishna Prasad.	CSE	Solid State Technology	Volume: 64 Issue: 1		
2	Privacy Preserving Cloud Storage in Medical IOT using Hybrid Cryptography Algorithm	S.Sumahasan,Dr.D.Rajya Lakshmi	CSE	Solid State Technology	Volume: 64 Issue: 2		
3	Content-based SMS Spam Messages classification using Natural Language Processing and Machine Learning	S. Sumahasan, Uday Kumar Addanki, Anjani Kintali, Srilekha Bontu	CSE	International Journal of Engineering Research in Computer Science and Engineering (IJERCSE)	Volume 8, Issue VII		July-2021
4	Automatic Speech to Text Summarization Using Graph Based Algorithm	Dr.P.V.S.L Jagadamba, Garapati Sai Harshini, Kalla Gowri, Gandi Yernamma	CSE	International Journal of Enhanced Research in Science, Technology & Engineering	Vol. 10 Issue 10, PP 29-32		Oct 2021
5	Machine Learning Based Hybrid Ensemble Model Using Majority Voting Technique For Crop Prediction	K.Purushottam Naidu Dr.P.Krishna Subbarao Dr.MHRM Krishna Prasad	CSE	Webology	Vol. 18 Issue 10, PP 29-32		Nov 2021

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List of CSE Department Publications in the Year - 2020

S.No	Title of paper	Name of the author/s	Department of the Teacher	Name of Journal	Volume and issued	Indexing SCI/ Scopus/ UGC/ others)	Year of publication
1	Applicational achievement of k-means algorithm among apache spark and map reduce	Laxmi Lydia, E., Sandhya, G., Gogineni, H.B., Latha, G.P., Sharmili, N.	CSE	Test Engineering and Management, Vol.82, , pp: 1224 - 1231 ,	Vol.82, , pp: 1224 - 1231 ,	Scopus	Jan- Feb 2020
2	A classification model using improved hybrid genetic particle swarm optimization algorithm based on separability-correlation measure	Renuka Devi B, N. Sharmili,	CSE	Test Engineering & Management magazine, Vol.82, , pp: 1215 - 1223	Vol.82, , pp: 1215 - 1223	Scopus	Jan- Feb 2020
3	IoT Based Atmosphere Monitoring System using Hadoop Map Reduce Paradigm	K.Purushotam Naidu, Dr.P.Krishna Subba Rao, Dr.MHM Krishna Prasad	CSE	International Journal of Engineering and Advanced Technology (IJEAT)	Volume:9 Issue:3		Feb, 2020
4	EEG Signal Pre processing using DWT and Reconstruction by Phase space Reconstruction	V.Lakshmana Rao, Dr.K.V.Ramana, Dr.P.Krishna Subba Rao,	CSE	INTERNATIONAL JOURNAL OF SCIENTIFIC & TECHNOLOGY RESEARCH VOLUME 9, ISSUE 03, MARCH 2020	VOLUME 9, ISSUE 03,	Scopus	March, 2020
5	Comparative Study on Fake News Accuracy Prediction Using Naive Bayes, SVM and ANN	K.Suneetha,Balaga Susmitha,Dasari Poornima	CSE	International Journal of Innovations in Engineering and Technology(IJIET)	Vol.15,Issue-4		March, 2020
6	GENDER IDENTIFICATION FROM FACIAL FEATURES	V.Gowtami Annapurna, D.Lakshmi Pujitha, D.Mounika	CSE	International Journal of Innovations in Engineering and Technology(IJIET)	Vol.15,Issue-4		March, 2020
7	Chronic Kidney Disease Prediction System	Ammavajjula Sai Tejaswi, Animilla Swapna Deepika, Yaragani Sowmya	CSE	International Journal of Scientific Research in Computer Science Engineering and Information Technology	Vol.6, Issue-2		March-April,2020
8	Detection and Prediction of Frequent Diseases in India through Association Technique using Apriori Algorithm and Random Forest Regression	P. Aishwarya, M. Bhanu Sridhar, L. Kavitha	CSE	International Journal of Engineering Research and Technology	Vol. 9, Issue-3		March,2020
9	Epileptic Seizure Detection and Classification based on RQA Features	V.Lakshmana Rao, Dr.K.V.Ramana, Dr.P.Krishna Subba Rao,	CSE	Journal of Advanced Research in Dynamical and Control Systems	Vol. 12, 05-Special Issue	Scopus	10 April,2020
10	DRUG INFORMATION EXTRACTION USING IMAGE PROCESSING	D.INDU,G.LAVANYA,K.V.S.S.SRINIJA,J.PAVANI,ALIM SOFIA	CSE	JETIR	volume 7,Issue 4		Apr-20

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S.No	Title of paper	Name of the author/s	Department of the Teacher	Name of Journal	Volume and issued	Indexing SCI/ Scopus/ UGC/ others)	Year of publication
11	Adaptive Frame Extraction and Action Recognition Using Deep Learning	P.V.S.L Jagadamba, K.S.S. Harshitha, G. Jayasree, B.S. Sameera, K.A. Varshini	CSE	Pramana Research Journal	Volume 10, Issue: 5		May,2020
12	A Comparative Study on Student Academic Performance Prediction Using ID3 and C4.5 Classification Algorithms	Suneetha Kandepi	CSE	International Journal of Computer Science and Engineering(IJCSE)	Volume 8, Issue:4		May, 2020
13	Disruptive Technologies for Smart Healthcare Systems using Artificial Intelligence for Hospital Management System	Dr. B. Prasad, Dr.Achyuth Sarkar,Dr.E.Laxmi Lydia, N. Sharmili	CSE	International Journal of Advanced Science and Technology (IJAST) Vol. 29, No. 9s, (2020), pp. 2684-2692	Vol. 29, Issue No. 9	Scopus	May, 2020
14	Optical Character Recognition using CRNN	G.Sankara Rao ,Haritha Chandrika P,Kambala Monica Sai	CSE	International Journal of Recent Technology and Engineering (IJRTE)	Volume-9 Issue-8		May-20
15	Text Summarization using Deep Learning	G.Sankara Rao ,Divya K,Sowmya	CSE	International Journal of Recent Technology and Engineering (IJRTE)	Volume 9 issue 8		May-20
16	Plant Disease Prediction System using Image Processing	B Uma Jagadeswari D Harshitha G Vineela B Siri Yaragani Sowmya	CSE	International Journal of Scientific Research in Computer Science, Engineering and Information Technology	Volume 6, Issue 3		May-June,2020
17	ALERT SYSTEM FOR DRIVER DROWSINESS USING RASBERRY PI	D.INDU,K.AISHWARYA,CH.LAVANYA,A.MOUNIKA,A.PRAT HYUSHA	CSE	Journal of Emerging Technologies and Innovative Research	volume 7, Issue 5		May-20
18	Real Time Human Action Recognition using Triggered Frame Extraction and a Typical CNN Heuristic	T. K. Mishra	CSE	Pattern Recognition Letters, Elsevier	Volume 135, Issue -		July, 2020
19	Monitoring and Analysis of Water Quality using IoT and SVM	K.Purushotam Naidu,K.Anusha,A.Neelima,K.Jahnvi,K.Sai Haritha	CSE	International Journal of Algorithms Design and Analysis	Volume:6, Issue:1		June, 2020
20	A Real Time IoT Interface Application for Autonomous Vehicle Parking	T. K. Mishra	CSE	International Journal for Research in Science & Engineering Technology	Volume:8, Issue:6		Jun-20

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S.No	Title of paper	Name of the author/s	Department of the Teacher	Name of Journal	Volume and issued	Indexing SCI/ Scopus/ UGC/ others)	Year of publication
21	Generic Imaging Heuristic for Identification of Breast Carcinoma	T. K. Mishra	CSE	International Journal for Research in Science & Engineering Technology	Volume:8,Issue:7		July, 2020
22	QR Code based Indoor Navigation system for Attender Robot	A.Sneha, V. Sai Lakshmi Teja*, Tusar Kanti Mishra, Kuppli N. Satya Chitra	CSE	EAI Endorsed Transactions on Internet of Things			13th July, 2020
23	Assessment of Diverse Techniques for Cyber Bullying Detection on Twitter Using Sentiment Analysis	K. Rohini, K. Himabindu, P. Ramya Sree, P. Amrutha Manasa, P. Ruby Indu Meena	CSE	International Journal of Scientific Research in Engineering and Management (IJSREM)	Volume: 04 Issue: 07		July, 2020
24	Blockchain Based Healthcare System DApp	Sharmili Nukapeyi, Meghana Viyyapu, E.Laxmi Lydia, M. Ilayaraja, R. Pandi Selvam, Irina V. Pustokhina, Denis A. Pustokhin	CSE	International Journal of Advanced Science and Technology (IJAST)	Vol. 29, No. 2	Scopus	July, 2020
25	"Simple Forecasting Model for COVID-19 Cases in India - Multilevel Model Evaluation with R2, MSE, and MAE"	Pasam Prudhvi Kiran, E.Laxmi Lydia, N.Sharmili, Ravuri Daniel, Dr.A.Krishna Mohan	CSE	European Journal of Molecular & Clinical Medicine	Volume 7, Issue 11	Scopus	2020
26	"Case Based Reasoning for Tuberculosis Diagnosis"	Pasam Prudhvi Kiran, E.Laxmi Lydia, N.Sharmili, Ravuri Daniel, Dr.A.Krishna Mohan	CSE	European Journal of Molecular & Clinical Medicine	Volume: 63 Issue: 6	Scopus	2020
27	"COVID-19 Lockdown Devastated Livelihood - Safe Back to Normality with Smart Jacket Prototype"	Pasam Prudhvi Kiran, Ravuri Daniel, N. Sharmili, E.Laxmi Lydia, Dr. A. Krishna Mohan	CSE	European Journal of Molecular & Clinical Medicine	Volume: 63 Issue: 6	Scopus	2020
28	"Efficient and Short-Range Forecasting Model for COVID-19 Time Series Parameters - Daily Confirmed Cases, Deaths, Recoveries"	Pasam Prudhvi Kiran, E.Laxmi Lydia, N.Sharmili, Ravuri Daniel, Dr.A.Krishna Mohan	CSE	European Journal of Molecular & Clinical Medicine	Volume: 63 Issue: 6	Scopus	2020
29	CLOUD BASED PREDICTION FOR EPILPTIC SEIZURE USING MACHINE LEARNING	V.Lakshmana Rao, Dr.K.V.Ramana, Dr.P.Krishna Subba Rao,	CSE	Solid State Technology	Volume: 63 Issue: 6	Scopus	Dec,2020
30	Object Detection using Deep Learning Algorithm CNN	S. Sumahasan, Uday Kumar Addanki	CSE	IJRASET	Volume 8, Issue VII		July 2020
31	Highly Dense MANET Architecture Using An Energy-Efficient Cluster-Based Routing Protocol	Dr.P.V.S.L Jagadamba	CSE	International Journal of Advanced Science and Technology	Vol. 29 No. 8 , pp. 6426-6439	Scopus	2020

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List of CSE Department Publications in the Year - 2019

S.No	Title of paper	Name of the author/s	Department of the Teacher	Name of Journal	Volume and issued	Indexing SCI/ Scopus/ UGC/ others)	Year of publication
1	Implementing FP-Growth Algorithm using MapReduce for Mining Association Rules	K.Purushotam Naidu, CHVVD Prasad	CSE	Journal of Advanced Database Management & Systems			May, 2019
2	Method and Apparatus for Detecting Denial of Service Attacks	Dr. PVS Lakshmi Jagadamba	CSE	Academic Journal of Science			June, 2019
3	An Integrated Way for Teaching Hadoop & Big Data Analytics Course	E laxmi Lydia, N.Sharmili	CSE	International Journal of Recent Technology and Engineering, Vol. 8, Number 2, pp.1-13	Volume: 8 Issue: 2	Scopus	July 2019
4	An Enhanced Artificial Neural Network based Optical Character Recognition Mechanism for Business Information Extraction and Classification"	Sharmili N, Swapna N	CSE	Journal of Advanced Research in Dynamical and Control Systems. Vol.11, issue -10, pp:13-19	Volume: 11 Issue: 10	Scopus	Sept 2019
5	Analysing the Performance of Classification Algorithms on Diseases Datasets	E laxmi Lydia, N.Sharmili	CSE	International journal of emerging technologies, Volume-10 Issue-3, pp: 224-230	Volume: 10 Issue: 3	Scopus	September 2019
6	Image classification using deep neural networks for malarial disease detection	E laxmi Lydia, N.Sharmili	CSE	International journal of emerging technologies, Volume-10 Issue-4, pp: 66-70	Volume: 10 Issue: 4	Scopus	November 2019
7	Automatic Document Clustering and Indexing of Multiple Documents Using KNMF for Feature Extraction through HADOOP and LUCENE on Big Data	E laxmi Lydia, N.Sharmili	CSE	Test Engineering & Management magazine, Vol.81, , pp: 1107-1130,	Volume: 7 Issue: 2	Scopus	Nov-Dec 2019


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(ACCREDITED BY NATIONAL BOARD OF ACCREDITATION[NBA] FOR B.TECH EEE VALID FROM 2023-24 TO 2025-2026)

(ACCREDITED BY NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL [NAAC] WITH A GRADE- VALID FROM 2022-27)

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DEPARTMENT OF CSE

PATENTS OBTAINED BY FACULTY

S.No	Name of persons who hold the patent	Class/Category	Title	Patent No.	Year
1	Jayavani Vankara Dr.N.Sharmili T. Sunitha Anusha Pureti V. Siva Parvathi	INA	Reminder Data Segregation System for Smart Wearable Device	202041010225	2020

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Research Activities of the Faculty Members in the last 3 Years:

Publications:

Indexing	2023*	2022	2021	2020	2019	2018
Web of Science (SCI/SCIE,ESCI)	1*	2(ESCI:1+ SCI:1)	2	2(ESCI:1+ SCI:1)	1	0
Scopus	0*	2	0	4	7	1
UGC Care-1	-	-	-	-	-	-
Others	4*	2	1	5	3	6
Total	5*	6	3	11	11	7

JOURNAL PUBLICATIONS

Calender Year	Journals
2023*	5*
2022	6
2021	3
2020	11
2019	11
2018	7
Total	43

CONFERENCE PUBLICATIONS

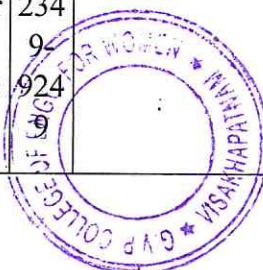
Calender Year	Conferences	Book Chapters	Books
2023*	1*	0*	0*
2022	5	1	1
2021	0	1	0
2020	2	2	0
2019	0	1	0
2018	2	5	0
Total	10	10	1



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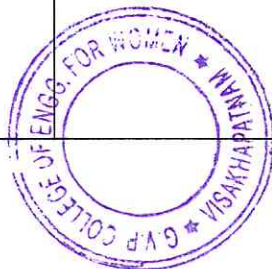
JOURNAL PUBLICATIONS LIST

S. No	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal	INDEXING SCI/SCIE, ESCI, SCOPUS, UGC
				2023*				
1	“Cognitive radio spectrum sensing using Matlab simulink”	B Vijayalakshmi, N Roopavathi	EC E	Swanirman Sunirmit ' Publications of Research (Abbreviation as SSPR) A Publication of Swanirman Sunirmit Volume-3 ,Issue-2,	June 2023	2583-2654		
2	“Computer-aided fusion-based neural network in application to categorize tomato plants,”	Uppad R and D.V.A. N.Ravi Kumar,	EC E	Signal, Image and Video Processing, Vol.17, No.7, pp.3313-3321, Print:Oct.2023 (Publisher:SP RINGER) Indexed by: SCI, SCOPUS, GOOGLE SCHOLAR	Online: 2023 May 23,	ISSN:1863-1711	https://www.scopus.com/sourceid/6200180165	SCIE & Scopus
3	design and implementation of approximate booth multiplier using	G.V. Spandana, J. Manidepika, B. Usha Sri , M.	EC E	TIJER Volume 10, Issue 4 www.tijer.org	April 2023	ISSN 2349-9243		



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	different 4:2 compressors	Divya, B. Lakshmi						
4	SPECTRUM SENSING FOR COGNITIVE RADIO	B.Vijaya Lakshmi , V.Radhika	EC E	Journal For Basic Sciences,23(3)	March 2023	ISSN NO : 1006-8341		
5	Design of Generic Mesochronous FIFO using DPRAM	Ch. Sree Harshitha, B.Lakshmi	EC E	International Journal for Modern Trends in Science and Technology, 9(02): 221-226, 2023'	Feb .2023	2455-3778		
2022								
1	"BIO MEDICAL APPLICATION WITH VARIATIONAL LEVEL SET CLASSIFIER TOOL"	V.Radhika, K.Padmavriya, B.Vijaya Lakshmi	EC E	International Journal of Innovative Research in Technology	December 2022	Volume 9, Issue 7 2349-6002		
2	"Battery operated portable Eclectic kettle "	P. Aruna Kumari, N. V. Maheswara Rao , S. Ram Sai Nithin Kumar	EC E	Journal of Digital Integrated circuits in Electrical Device	September-December	Volume 7, Issue 3		



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					2022.		
3	“VLSI implementation of Integrated massive MIMO systems for N-point FFT/IFFT processor”	Kiranmai Babburu, S S Kiran Lavanya Vadda, K Gurucharan and B V R Gowri	EC E	International Journal of Electrical and Electronics Research (Scopus Indexed) IJEER FOREX publication,	Volume 10, Issue 4, pages: 112-1129. (October-December) 234-470	X	https://www.scopus.com/sourceid/21101067520 scopus
4	“Detection of Alzheimer’s disease using MRI images based on SVM classifier”	P. M. K. Prasad and Y. Raghavender Rao	EC E	ARPN Journal of Engineering and Applied Science (Scopus Indexed),	Vol. 17, No. 5, March 2022, ISSN: 1915-9605	ISSN: 1915-9605	https://www.scopus.com/sourceid/21100200825 Scopus
5	“GPS Receiver Position Augmentation Using Correntropy Kalman Filter in Low Latitude	Sirish Kumar Pagoti, Srilatha Indira Dutt Vemuri, and Ganesh Laveti	EC E	The International Arab Journal of Information Technology	Vol. 19(1), 72-80, January 2022, ISSN: 1683-3319	ISSN: 1683-3319	https://www.scopus.com/sourceid/19500157821 SCIE & Scopus



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	Terrain”,							
6	“Novel 2-D Histogram-Based Soft Thresholding for Brain Tumor Detection and Image Compression”	Chiranjeevi Karri,G. Ramesh Babu,P. M.K.Prasad and M. S. R. Naidu	EC E	International Journal of Applied Metaheuristic Computing, Volume 13, Issue 1,	2022,	ISSN: 1947-8283 (ESCI and Scopus Indexed)	https://www.scopus.com/sourceid/21100858129	Scopus & ESCI
				2021				
1	IoT based Smart Fridge Application	K.Srinivasa Rao, M. Bhanu Sridhar, L.Pavani	EC E	International Journal of Engineering Research & Technology (IJERT), Vol. 10 Issue 12,	December 2021	ISSN: 2278-0181		
2	“Conditioned Measurement Fused Estimate Unscented Kalman Filter for Underwater Target Tracking using Acoustic signals captured by Towed Array”	D.V.A. N.Ravi Kumar	EC E	Applied Acoustics, vol.174,pp.107742,Mar.2021. Publisher: Elsevier, Indexing:SCI, Scopus, Google Scholar	Mar 2021	0003-682X	https://www.scopus.com/sourceid/12946	SCIE & Scopus



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3	“ Hybrid Unscented Kalman Filter with Rare features for Underwater Target tracking using Passive Sonar Measurements”	D.V.A. N.Ravi Kumar	EC E	Optik, Vol.226,No.1, pp.1-13,Jan. 2021.	Jan. 2021.	003 0-402 1. 6	https://mjl.clarivate.com/search-results?issn=0030-4026&hide_exact_match_fl=true&utm_source=mjl&utm_medium=share-by-link&utm_campaign=search-results-share-this-journal	SCI & Scopus
2020								
1	Parametric analysis of full adder using pass transistor logic and gate diffusion input logic	M.Raviendra Kumar, B.Divya Sathi and M.Rajagn Babu	EC E	Journal of Architecture & Technology. Vol XII issue XII	2020	ISSN:1006-7930	https://www.scopus.com/sourceid/37099	
2	“Performance evaluation of suitable navigation algorithm using raw measurements taken from stationary GPS receiver”	P. Sirish Kumar, V.B.S. Dutt & Ganesh Laveti	EC E	Materials Today: Proceedings, Volume 33, Part 7, Pages 3366-3371, 2020. DOI: https://doi.org/10.1016/j.matpr.2020.05.171 (ELSEVIER, Scopus Indexed)	July 2020.	221 4-785 3	https://www.scopus.com/sourceid/2110037003	scopus
3	“A novel kinematic positioning algorithm for GPS	P.Sirish Kumar, V.B.S. Srilatha Indira	EC E	Material Today: proceedings , Volume 33, Part 7, Pages	July 2020.	221 4-785 3	https://www.scopus.com/sourceid/2110037003	scopus



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	in low latitude regions of South India	esh				- 8110		
7	DOA Estimation of Wideband Cyclic MUSIC Algorithm under Rayleigh Fading Environment in MIMO Systems	NVSV Vijaya Kumar, K. Raja Rajeswari , P. Rajesh Kumar	EC E	International Journal of Recent Technology and Engineering (IJRTE)	May, 2020	ISSN: 2277-3878, Volume-9 Issue-1,		
8	Carrier frequency offset(CFO) Estimation in MC-CDMA System	Dr.Guntu Nooka Raju, Dr .P.M.K. Prasad , Bethapudi Ratnakanth	EC E	International Journal of Advanced Science and Technology	May, 2020	2005-4238	https://www.scopus.com/sourceid/21100829147	Scopus20(16-20)
9	Sparse recovery based compressive sensing algorithms for diffuse optical tomography	B.P.V. Dileep , Pranab K. Dutta, P.M.K. Prasad , M. Santhosh	EC E	Optics and Laser Technology- Elsevier	mar., 2020	0030-3992	https://www.scopus.com/sourceid/12346	SCIE and Scopus
10	Contrast Enhancement of Satellite Images Based on Lifting Haar Wavelet	Dr.P.M. K.Prasad , Dr. Y.Raghavender Rao, Dr.Karri	EC E	International Journal of Emerging Trends in Engineering Research	Mar, 2020	2347-3983	https://www.scopus.com/sourceid/21100913341# tabs=0	Scopus



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	Transform And Singular Value Decomposition	Chiranjeevi						
1	“Multiuser Detection and Channel Estimation for CDMA System under Flat Fading Channels”,	Guntu Nooka Raju, Srinivasa Rao K , Bethapudi Ratnakanth	EC E	International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9 Issue-4, February 2020, 2884, SCOPUS Indexed, DOI: 0.35940/ijitee.D1614.029420	Feb 20	227 8-307 5		
2019								
1	Multiuser Detection using NOMA Technique in FD-MC-CDMA System in Fading Channels	Guntu Nooka Raju, Muddapuru V Tirupathamma, Srinivasa Rao	EC E	International Journal of Innovative Technology and Exploring Engineering (IJITEE), Volume-9 Issue-2, December 2019, 3247, SCOPUS Indexed, DOI: 10.35940/ijitee.B7774.129219	Dec 19	227 8-307 5	https://www.scopus.com/sourceid/21100889409	Scopus(2018-2019)
2	GPS Receiver Position	P. Sirish Kumar, L.	EC E	International Journal of Innovative	Dec 20	227 8-307	https://www.scopus.com/sourceid/21100889409	Scopus(2018-2019)



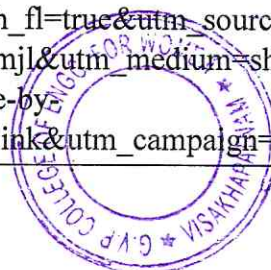
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	Interpretation using Single Point PVT Estimation Algorithm	Ganesh , Ashok Kumar. N, V.B.S Srilatha Indira Dutt		Technology and Exploring Engineering (IJITEE)	19	5		
3	Design of high speed low power domino logic for wide fan in gates	Kosuri Bhavani, Divya Sathi Balaga , Ravindra Kumar Moningi	EC E	IOSR Journal of VLSI and Signal Processing (IOSR-JVSP)	Jul. - Aug. 2019	e-ISSN: 2319-4200, p-ISSN: 2319-4197		
4	"Subthreshold Region based linear feedback shift register"	B. Lakshmi , M. Kamara ju, K.Babulu	EC E	International Journal of engineering and advanced technology,8(6S2),	Aug. 2019	2249-8958	https://www.scopus.com/sourceid/21100899502	Scopus(2018-2019)
5	" Super Resolution Sub-space based ROOT-MUSIC Technique for Direction of Arrival Evaluation in MIMO Radar"	NVSV Vijaya Kumar, K. Raja Rajeswari , P. Rajesh Kumar	EC E	International journal of Innovative Technology and Exploring Engineering (IJITEE), Volume 8, Issue 9, July 2019, pp 1643-1646.	July 2019	2278-3075	https://www.scopus.com/sourceid/21100889409	Scopus(2018-2019)



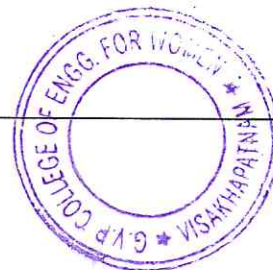
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6	“Design and Implementation of high speed counters using “MUX based full Adder(MFA)””	G.P.S.P rashant hi, K.V Jyothi	EC E	IOSR Journal of Electronics and Communication Engineering (IOSR-JECE),14(4), ser-I, pp-57-64	vol um e 14, Issu e 4, 227 july 8- 201 283 9 4		
7	“Design and Implementation of positive feedback comparator in terms of power and delay”	M.Mani Kumari, K.Lakshmi	EC E	IOSR Journal of VLSI and Signal Processing (IOSR-JVSP),9(4),pp .10-17,	e- ISS N :23 19- 420 0,P- ISS N:2 319 - 420 0, Ju ly 9- 201 420 9 0		
8	“SRAM based Look Up table design using Multiple valued Logic”	M.Mani Kumar, Prof.K.Padma priya	EC E	Journal of Adv in Dynamical & Control Systems,11(7) -special issue.	Vol um e11 -07 spe cial issu e, Ju ne- 201 194 9 3- 023 9 X	https://www.scopus.com/sourceid/20500195215	Scopus
9	“A Novel Estimation algorithm for torpedo tracking in undersea environment	D.V.A. N.Ravi Kumar, S.Koteswara Rao and K.Padm	EC E	Journal of Central South University, Vol .26, No.3,pp.673-683,	209 5- 289 9(p rint) 222 7- Apr il, 2 019	https://mjl.clarivate.com/:search-results?issn=2095-2899&hide_exact_match_h_fl=true&utm_source=mjl&utm_medium=share-by-link&utm_campaign=se	SCIE and Scopus



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1 0	"Noise Reduction in ECG Signals for Bio- telemetry"	V.J.Nav een, K.M.Kr ishna and K.Raja rajeswa ri	EC E	International Journal of Electrical and Computer Engineering, 9(2),pp.1028- 1035,	Feb ,20 19	208 8- 870 8	https://www.scopus.com /sourceid/21100373959	Scopus
1 1	"Wavelet Feature Extraction Based Human Iris Recognition "	P.M.K. Prasad	EC E	ARPJ Journal of Engineering and Applied Sciences, 14(4), pp.842- 847 ,Feb.2019.	Feb ,20 19	181 9- 660 8	https://www.scopus.com /sourceid/21100200825	Scopus
2018								
1	"BER Estimation in UFMF System for Wireless Communicat ions"	V.J.Nav een, K.M.Kr ishna and Dr.K.R ajaraje swari	EC E	Journal of advanced research in dynamical & control systems" 10(12),special issue 294-299,	spe cial issu e,2 018	194 3- 023 X	https://www.scopus.com /sourceid/20500195215	Scopus
2	"Cognitive radio spectrum sensing detection methods using MATLAB simulink"	B.Vijay a Laksh mi and P.Siddai ah	EC E	Journal of advances in communicatio n engineering and its innovations, 3(2),	Jun e,2 018	ISS N 245 7- 081 8		
3	"Spectrum sensing in cognitive radio using MIMO	B.Vijay a Laksh mi and P.Siddai	EC E	International Journal of research in electrical, electronics	Jun e,2 018			



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	technique"	ah		and communicatio n engineering, 3(2),1-8,				
4	"Design and implementati on of non- perfect reconstructio n biorthogonal wavelets for edge detection of X-ray images"	P.M.K. Prasad, G,S.Rao ,M.N.V. S.S.Ku mar and K.Chira njeevi	EC E	International Journal of Data Science, 3(1),50- 66, March.,	Mar ,,20 18	205 3- 081 1,2 053 - 082 X		
5	"Machine learning in automated intelligent surveillance system"	G.Sree Lakshm i and CH.Siri sha	EC E	International journal of electrical communicatio n engineering, 4(1),1-7	201 8	NO		
6	Anfis Based Power Control for Cognitive Radio.	B. V. Lakshm i and Dr. P. Siddaia h	EC E	Journal of Wireless communicatio n, Networks and Mobile Engineering Technology	Vol um e 3 Issu e 1, 201 8	NO		
7	"Smart parking management and reservation system based on PHP webservice"	L.Yamu na Rani and P.V.K.C haitany a	EC E	International journal of electrical communicatio n engineering, 4(1),1-10,	Jan, 201 8	NO		



Ans

Patents

ECE PATENTS

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S.No	year	No of patents
1.	2023	1
2.	2022	3

2023
1. Patent Published on the name of Prof. K. Raja Rajeswari, Mrs. N.Roopaa Vathi and Dr.B.Leelaram Prakash dated 31-05-2023 on "A SYSTEM FOR COMPOSITE WAVEFORM OF (GAUSSIAN AND REYLEIGH) DISTRIBUTION FOR NLFM GENERATION AND METHOD THEREOF" under the number 2023/01840 Approved by Register of patents, Republic of South Africa.
2022
1. Patent Published on the name Prof. K. Raja Rajeswari and Mrs. N.Roopaa Vathi dated 30-12-2022 on "A SYSTEM FOR COMPOSITE WAVEFORM OF (GAUSSIAN AND RAYLEIGH) DISTRIBUTION FOR NLFM GENERATION AND METHOD THEREOF" Approved by Intellectual Property India, Department of Industrial Policy & Promotion Ministry of Commerce & Industry, Govt. of India.
2. Patent (U/S 11A) Published on the name Prof. K. Raja Rajeswari dated 19-11-2022 on " A New Figure of Merit for Pulse Compression Radar " by Intellectual Property , Ministry of Commerce & Industry , Govt. of India .
3. Prof. Raj Kumar Goswami, has obtained "published utility patent application" for his invention "Trellis Coded Modulation System for Improved Bit Error Rate in Fading Channels" and it is published in theThe Patent Office Journal No. 06/2022 Dated 11/02/2022.

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Research Projects:

<u>S.N</u> <u>o</u>	Name of The Faculty	Project Title	Number	Project Type:Research/Consultancy	Funding Agency	Amount	Duration
1	Dr.K. Raja Rajeswari (PI) Dr.K. Srinivasa Rao (CO-PI) and N. Roopavathi (CO-PI)	Study and Development of Temporal Sidelobe Level Reduction Methods for Pulse Doppler Radars	CARS NO:LRDE/CARS-81/RAD IV/2021	CARS Consultancy	LRDE, DRDO, Bangalore.	9,44,802 rupees only	Actual Duration is 27/4/21 to 1 Year, Then extended and Closed on 31 oct 2022


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(ACCREDITED BY NATIONAL BOARD OF ACCREDITATION [NBA] FOR B.TECH EEE VALID FROM 2023-24 TO 2025-2026)
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LIST OF JOURNAL PUBLICATIONS IN 2023

Sl.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal
2023							
1	"Transformer Cascaded 27-Level Multilevel Inverter for Medium/High Voltage PV System integration	Mr M Krishna, P. Ajay D. Vimal Raj & M. Sudhakaran	EEE	Iranian Journal of Science and Technology, Transactions of Electrical Engineering.	2023		https://link.springer.com/article/10.1007/s40998-023-00606-9
2	Two Input single output converter with preserved output voltage under source fault	Dhananjaya M, Jagabar Sathik M, Dhafer Almkhles, Devendra Potnuru, Saad Mekhilef	EEE	International Journal of Circuit Theory and Applications, Wiley Online Library	2023		https://doi.org/10.1002/cta.3691
3	Nonlinear state estimator design and implementation for speed control of a BLDC motor drive using square-root extended H _∞ filter	Kumar Pakki Bharani Chandra Devendra Potnuru Danalakshmi DurairajPremkumar Manoharan Hassan Haes Alhelou	EEE	International Journal of Circuit Theory and Applications, Wiley Online Library	2023		https://doi.org/10.1049/pej2.12545
4	Interval Approach Based Decentralized Robust PID-PSS Design for an Extended Multimachine Power System	A. S. V. Vijaya Lakshmi Mangipudi Siva Kumar, Manyala Ramalinga Raju	EEE	Arabian Journal for Science and Engineering.	2023		https://doi.org/10.1007/s13369-023-08197-7

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LIST OF JOURNAL PUBLICATIONS IN 2022

Sl.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal
1	short term load forecasting using Artificial Neural Network	R.V.S. lakshmi Kumari, B.Sahithi,K.Mounika,M.Jahnavi,S.S usheela	EEE	International Journal of analytical and Experimental modal analysis	2022	0886-9367	
2	New class of Power Converter for Performing the Multiple Operations in a Single Converter: Universal Power Converter	Dhananjaya Mudadla, Devendra Potnuru , Raavi Satish, Almoataz Y. Abdelaziz and Adel El-Shahat	EEE	Energies 2022	2022		https://doi.org/10.3390/en15176293
3	Design and Implementation of Single-Input-Multi-Output DC-DC Converter Topology for Auxiliary Power Modules of Electric Vehicle	Mudadla Dhananjaya , Devendra Potunuru Prem Kumar Manoharan And Hassan Haes Alhelou	EEE	IEEE ACCESS	2022		10.1109/ACCESS.2022.3192738
4	Salp swarm algorithm based optimal speed control for electric vehicles	Devendra Potnuru , Tummala Siva Lova Venkata Ayyarao , Lagudu Venkata Suresh Kumar , Yellapragada Venkata Pavan Kumar , Darsy John Pradeep , Challa Pradeep Reddy	EEE	International Journal of Power Electronics and Drive Systems (IJPEDS)	2022	2088-8694	http://doi.org/10.11591/ijpeds.v13.i2.pp755-763
5	Implementation of Harris Hawks optimization for load frequency control of hydropower plant	Devendra Potnuru , Lagudu Venkata Suresh Kumar , Bankuru Sonia , Yellapragada Venkata Pavan Kumar , Darsy John Pradeep , Challa Pradeep Reddy	EEE	International Journal of Power Electronics and Drive Systems (IJPEDS)	2022	2088-8694	http://doi.org/10.11591/ijpeds.v13.i2.pp1093-1100
6	A New Multi-Output DC-DC Converter for Electric Vehicle Application	Mudadla Dhananjaya, Devendra Ponuru , Thanikanti Sudhakar Babu, Belqasam Aljafari, Hassan Haes Alhelou	EEE	IEEE ACCESS	2022		r 10.1109/ACCESS.2022.3151128
7	Transformer Based 25-Level T-Type MLI for Renewable Energy Integration	Krishna Molli , P. Ajay D Vimal Raj, N.P.Subramaniam	EEE	IEEE Journal of Emerging and Selected Topics in Industrial Electronics	2022	2687-9735	doi: 10.1109/JESTIE.2022.3164252 Head ept. of Electrical & Electronics Engineering G.V.P. College of Engineering for Women Madhurawada VISAKHAPATNAM-530048

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LIST OF JOURNAL PUBLICATIONS IN 2021

Sl.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal
2021							
1	Design and implementation of a new inverter topology with reduced THD and part count	Devendra Potnuru	EEE	International journal of system assurance engineering and management	2021	0975-6809	https://www.scopus.com/sourceid/19700177002
2	Control constraint based optimal PID-PSS design for a widespread operating power system using SAR algorithm	Vijaya Lakshmi A.S.V, Ramalinga Raju Manyala and Siva Kumar Mangipudi	EEE	International Transactions on Electrical Energy Systems	2021	2050-7038	https://www.scopus.com/sourceid/21100241220
3	Stabilized Power Management in the Microgrid Using Unified Delta Controller	Molli.Krishna; Raj. P Ajay-D-Vimal; Subramaniam, N P. Sudhakaran, M.	EEE	Journal of Electric Systems	2021	1112-5209	https://www.scopus.com/sourceid/19700186890
4	Usage Based Loss Allocation To Generators In Single Area Power System	D.Srilatha ,R.V.S. Lakshmi kumari , S.V.R.Lakshmi Kumari	EEE	International Journal on Design Engineering	2021	0011-9342	https://www.scopus.com/sourceid/28687
5	Robust Observer Design for Mitigating the Impact of Unknown Disturbances on State of Charge Estimation of Lithium Iron Phosphate Batteries using Fractional Calculus	K D Rao, A Hema Chander and S Ghosh	EEE	IEEE Transactions on Vehicular Technology	2021	0018-9545	https://www.scopus.com/sourceid/17393
6	Optimal Robust PID-PSS Design for Melioration of Power System Stability Using Search and Rescue Algorithm	Vijaya Lakshmi A.S.V, Ramalinga Raju Manyala and Siva Kumar Mangipudi	EEE	Journal of Control Automation and Electrical Systems	2021	2195-3899	https://www.scopus.com/sourceid/24214

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LIST OF JOURNAL PUBLICATIONS IN 2020

Sl.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal
2020							
1	Analysis of Active power load dispatch in economic and environmental aspects with pseudo power flow	D. Srilatha, RVS Lakshmi Kumari, B Srinivasaraju, T.Vasavi Pratyusha	EEE	International Journal of Future Generation Communication and Networking	2020	2233-7857	https://mjl.clarivate.com/search-results
2	Design of a robust PID-PSS for an uncertain power system with simplified stability conditions	Vijaya Lakshmi A.S.V, Ramalinga Raju Manyala and Siva Kumar Mangipudi	EEE	Protection and Control of Modern Power Systems	2020	2367-0983	https://www.scopus.com/sourceid/21100900364

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PATENTS

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Patent Details with proofs (Attach screenshots, pdf, image file, etc.): from EEE Department

Sl. No.	Patent Application No.	Status of Patent (Published / Granted)	Inventor/s Name	Title of the Patent	Applicant/s Name	Patent Filed Date (DD/MM/YY)	Patent Published Date / Granted Date (DD/MM/YYYY)	Patent Publication Number / Patent Granted Number	Assignee/s Name (Institute Affiliation/s at time of Application)	Here, attach Source Proof Screenshots/URL/ Website Links, etc.
1	202241068079 A	Published	1. Krishna Molli 2. Dr. P. Ajay D Vimal Raj 3. Dr. N. P. Subramaniam		1. Krishna Molli 2. Dr. P. Ajay D Vimal Raj 3. Dr. N. P. Subramaniam	23-12-2022			Gayatri Vidya Parishad College of Engineering for Women, VIZAG	https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus
2	202241011385 A	Published	1. BALAJI. D 2. Dr. L. V. SURESH KUMAR 3. Dr. CH. PRADEEP REDDY 4. Dr. Y. V. PAVAN KUMAR 5. Dr. D. JOHN PRADEEP 6. Dr. DEVENDRA POTNURU 7. Dr. SUREKHA LANKA 8. Dr. N. MOHAN KRISHNA VARMA	SEE-SAW PNEUMATIC PIEZO AND SOLAR ENERGY GENERATION MECHANISM OPTIMISED USING ARTIFICIAL INTELLIGENCE	1. BALAJI. D 2. Dr. L. V. SURESH KUMAR 3. Dr. CH. PRADEEP REDDY 4. Dr. Y. V. PAVAN KUMAR 5. Dr. D. JOHN PRADEEP 6. Dr. DEVENDRAPOTNURU 7. Dr. SUREKHA LANKA 8. Dr. N. MOHAN KRISHNA VARMA	03-03-2022	18-03-2022		Gayatri Vidya Parishad College of Engineering for Women, VIZAG	https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus
3	202141012214 A	Published	1. Dr Balaji D 2. Dr Jarabala Ranga 3. Mr G.Balu Narasimha Rao 4. Mr K. Venkateswar Rao 5. Dr D Srilatha 6. Dr R V S Lakshmi Kumari 7. Mrs S V R Lakshmi Kumari 8. Mr Moturuseshu	AN AI ABETTED GREEN ENERGY GENERATING SYSTEMS	1. Dr Balaji D 2. Dr Jarabala Ranga 3. Mr G.Balu Narasimha Rao 4. Mr K. Venkateswar Rao 5. Dr D Srilatha 6. Dr R V S Lakshmi Kumari 7. Mrs S V R Lakshmi Kumari 8. Mr Moturuseshu	22-03-2021	02-04-2021		Gayatri Vidya Parishad College of Engineering for Women, VIZAG	https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus

Head
Electrical & Electronics Engineer
College of Engineering for Women
Madhurawada
VISAKHAPATNAM-530048



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(Accredited By National Board of Accreditation (NBA))

Department of Information Technology

Academic Year: 2022-23

Type of Publication	Number
Journals	12
Conferences	03
Total	15

Academic Year: 2021-22

Type of Publication	Number
Journals	04
Total	04

Academic Year: 2020-21

Type of Publication	Number
Journal	01
Book chapter	01
Patent	01
Total	03

10 marks


Head of Department
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Journal Publications for the Academic Year 2022-23

S. No.	Name of the faculty	Title of the paper	Name of The Journal	Year & Month of Publication	DOI	ISSN No.	Link to the recognition in UGC/SCOUPUS/SCIE enlistment of th Journal
1	C.Srinivas	A Survey Paper on Evidence Graphs and Risk Assessment Method Based on AHP	Intrtnational Journal of Creative Research Thoughts (IJCRT), Vol 10, Issue 12	Dec 2022		2320-2882	UGC Group- I
2	Dr.Bhanu Sridhar	An Optic Disc and Optic Cup Segmentation Technique to Diagnose Glaucoma Using CNN and RNN",	Mukt Shabd Journal, Vol. XII, Issue V,	May 2023	https://doi.org/10.0014.MSJ.2023.V12I05.0086781.1143562,	2347-3150	UGC Group- I
3	Dr.Bhanu Sridhar	A Comparative Analysis of Twitter Data for Stock Market Prediction through Generative Adversarial Networks and NLP Algorithm	Mukt Shabd Journal, Vol. XII, Issue V,	JUNE 2023	https://doi.org/10.0014.MSJ.2023.V12I06.0086781.1143980,	2347-3150	UGC Group- I
4	Dr.Bhanu Sridhar	Identifying Phishing URLs from Historical Data through Machine Learning Techniques Using Vectorization and Feature Extraction	International Journal of Management, Technology and Engineering,	March 2023		2249-7455	UGC Group- I
5	P. Sri Devi	Leaf Disease Detection System Through Deep Learning Using CNN Model	International Journal of Innovative Research in Technology (IJIRT)	March 2023		2349-6002	UGC Group- I

6	G.Tirupati	Machine Learning Pipeline Model for Prediction of Stability in Smart Grid	Strad Research. Vol.10, Issue 4	April 2023	https://doi.org/10.37896/sr10.4/007	0039-2049	UGC CARE Group-II
7	M.Deepthi	Fashion Clothes Generation System using Deep Convolutional GAN	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	April 2023	https://doi.org/10.22214/ijras.et.2023.50469	2321-9653;	-
8	M.Deepthi	Supply Chain Monitoring and Authentication using Blockchain	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	April 2023	https://doi.org/10.22214/ijras.et.2023.50615	2321-9653;	--
9	G.Tirupati	Interactive System for Gender Classification	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	April 2023	https://doi.org/10.22214/ijras.et.2023.50602	2321-9653;	-
10	R. Prasanna Kumari	Detection of Kidney Disease Using Machine Learning	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	April 2023	https://doi.org/10.22214/ijras.et.2023.50321	2321-9653;	-
11	C.Srinivas	Machine Learning based Ensemble Technique for DDoS Attack Detection in Software-Defined Networking	International Journal of Computer Applications Vol 185 No.6	May 2023		0975-8887	
12	C.Srinivas	An Efficient Approach for Detecting Most Probable Attack in Networks using Analytic Hierarchy Process	Solid state Technology Vol:66, Issue:1	2023			


 Head of Department
 Dept. of Information Technology
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Journal Publications for Academic Year 2021-22

S. No.	Name of the faculty	Title of the paper	Name of The Journal	Year & Month of Publication	DOI	ISSN No.	Link to the recognition in UGC/SCOUPUS/SCIE enlistment of the Journal
1	D K Bebarta	An Intelligent Hybrid System for Forecasting Stock and Forex Trading Signals using Optimized Recurrent FLANN and Case-based Reasoning	International Journal of Computational Intelligence Systems	June-2021	https://doi.org/10.2991/ijcis.d.210601.001	1875-6883	https://www.atlantispress.com/journals/ijcis SCIE
2	D K Bebarta	Automatic Hate Speech Detection in English-Odia Code Mixed Social Media Data using Machine Learning Techniques	Applied Sciences, MDPI	Sept-2021	https://doi.org/10.3390/app11188575	2076-3417	https://www.mdpi.com/journal/applsci (SCIE)
3	G. Tirupati	Covid-19 Prediction Modeling Using Bidirectional Gated Recurrent Unit Network Model	Webology	October-2021	--	1735-188X	https://www.webology.org/index.html SCOPUS
4	R. Sridevi and G. Sudheer	Identification of Spatial Relations in Mathematical OCR Expressions	Reliability: Theory & Applications	December-2021	10.24412/1932-2321-; 10.24411/1932-2321-	1932-2321	https://journals.indexcopernicus.com/search/details?id=12135 (SCOPUS)

(SCIE-02, SCOPUS-02)


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Journal Publications for Academic Year 2020-21

S. No.	Name of the faculty	Title of the paper	Name of The Journal	Year & Month of Publication	DOI	ISSN No.	Link to the recognition in UGC/SCOUPUS/SCIE enlistment of the Journal
1	M. Santhosh	Sparse recovery based compressive sensing algorithms for diffuse optical tomography	Optics and Laser Technology, Elsevier	August-2020	https://doi.org/10.1016/j.optlastec.2020.106234	0030-3992	https://www.journals.elsevier.com/optics-and-laser-technology SCIE

(SCIE-01)

Book Chapter details (2020-2021)

Faculty Name	Book/Book Chapter Details along with Web-link	Name of the Publisher	Year	Link to Published Book/Book Chapter
Dr. Dwiti Krishna Bebarta	Chapter-12: Computationally Efficient and Effective Machine Learning Model Using Time Series Data in Different Prediction Problems Book: Handbook of Research on Automated Feature Engineering and Advanced Applications in Data Science	IGI-Global, USA DOI: 10.4018/978-1-7998-6659-6	January-2021	http://www.appleacademicpress.com/intelligent-systems-advances-in-biometric-systems-soft-computing-image-processing-and-data-analytics/9781771888004

Patent details (2020-2021)

Sl. No.	Name of The Organization	Author Names	Patent Title
01	Official Journal of the Patent Office, Govt. of India Date of filing of Application :09/10/2020 Publication Date : 09/10/2020 Application No.202031024135 A	1. Dr. Sunil Kumar Dhal 2. Dr. Srinivas Prasad 3. Dr D. Haritha 4. Dr. Rabinarayan Satpathy 5. Dr. Dwiti Krishna Bebarta	AI Based Method and Apparatus for Stamping Driving Assistance Based Signs on a Road.

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 Dept. of Information Technology
 Gayatri Vidya Parishad College of Engineering for Women
 Kakinada-48

PATENT-IT

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202031024135 A

(19) INDIA

(22) Date of filing of Application :09/06/2020

(43) Publication Date : 09/10/2020

(54) Title of the invention : AI BASED METHOD AND APPARATUS FOR STAMPING DRIVING ASSISTANCE BASED SIGNS ON A ROAD

(51) International classification	:G05D0001000000, G05D0001020000, G06N0003080000, G08G0001096700, G06N0003040000	(71)Name of Applicant : 1)Pof.(Dr.) Sunil Kumar Dhal Address of Applicant :Professor, Faculty of Management Studies SRI SRI UNIVERSITY, Cuttack, Odisha 2)Dr Srinivas Prasad 3)Dr D Haritha 4)Dr. Rabinarayan Satpathy 5)Dr. Dwiti Krishna Bebarta
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Pof.(Dr.) Sunil Kumar Dhal 2)Dr Srinivas Prasad 3)Dr D Haritha 4)Dr. Rabinarayan Satpathy 5)Dr. Dwiti Krishna Bebarta
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	:NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An artificial intelligence based apparatus and method for stamping driving assistance based signs on a road is provided. The apparatus and method includes controlling operation of a gun to print a plurality of pre-stored signs to be printed on the road based on artificial intelligence. The AI based apparatus continually learns the road conditions and road surface parameters details so that when the gun operates autonomously it can imitate the same movements executed by the gun in the past to select the at least one sign from a plurality of pre-stored signs to be printed on the road based the surface area of the road, compute the dimensional parameters of surface, presence of cracks, bumps on the road. The artificial intelligence-electronic control unit can include current mobile technology, fuzzy logic and neural networks that enable the drone to learn automatic selection of the type of sign to be printed based on the road conditions.

No. of Pages : 27 No. of Claims : 10

Remarks

APPENDIX-5

Norms for Books, Library facilities, Computer, Software, Internet, Printers and Laboratory Equipment of the Technical Institutions

5.1 Computers, Software, Internet and Printers

Programme		Number of PCs/ Laptop to student ratio (Minimum 20 PCs)	Legal System Software @	Legal Application Software**	LAN and Internet	Mail Server and Client	Printers including Color Printer (% of total number of PCs/Laptops)
Engineering and Technology	Diploma	1:8	03	20	All	Desirable	5%
	Under Graduate	1:10					
	Post Graduate	1:4					
Planning	Under Graduate	1:6	01	10	All	Desirable	5%*
	Post Graduate	1:4					
Applied Arts and Crafts	Diploma	1:6	01	10	All	Desirable	5%
	Under Graduate	1:6					
	Post Graduate	1:4					
Design	Under Graduate	1:6	01	10	All	Desirable	5%
	Post Graduate	1:4					
Hotel Management and Catering Technology	Diploma	1:6	01	10	All	Desirable	5%
	Under Graduate	1:6					
MCA	Post Graduate	1:4	03	20	All	Desirable	5%
Management	Post Graduate	1:6	01	10	All	Desirable	5%

*At least one printer to be A1 Size Color Printer/ Plotter

** Includes Plagiarism checking Software Internet speed required for the Institution

Approved Intake	Internet Band width (1:1)*
up to 300	100 Mbps
301 - 600	300 Mbps
601 - 900	500 Mbps
>900	1Gbps

*In case of Non-Availability of Bandwidth in a Single Connection, Multiple connections shall be ensured to fulfil the specified Norms. At least 8 Mbps Wi-Fi connectivity and hotspots shall be made available where ever required (minimum 5 Hotspots) Arrangement to view NPTEL/ SWAYAM & SWAYAM PRABHA etc. shall be made available.

- Utilization of Open Source Software shall be encouraged.
- Secured Wi-Fi facility with reliable hardware is highly recommended
- Utilization of indigenized Video conferencing facility is recommended
- Library, Administrative Offices and Faculty members shall be provided with exclusive computing facilities along with LAN and Internet. This shall be considered as over and above the requirement meant for PCs to students ratio
- @Adequate number of software licenses is required
- Central Photo copying facility for students is preferred
- PC shall also include Laptop in the inventory of the Institution
- Every Department shall have separate Computer Laboratory with at least 20 Computers and a centralized Computer Laboratory with at least 100 Computers.
- Effective utilization of ICT / Research / Other academic related facilities extended by agencies / organizations through MoU with AICTE is highly recommended (<https://www.aicte-india.org/education/collaborations>).

5.2 Laboratory Equipment and Experiments

The Laboratories shall have Equipment as appropriate for experiments as stated/suitable for the requirements of the affiliating University/ Board's Curriculum. It is desired that the number of experimental set-up be so arranged that maximum four students shall work on one set.

5.3 Books and Library Facilities

Programme	Total Number of Divisions	Titles		Volumes		Reading Room Seating	Multimedia PCs for Digital Library/ internet Surfing located in the reading room
		Number		Number		% of Total Students	% of Total Students
Engineering and Technology/ Applied Arts and Crafts/ Hotel Management and Catering Technology (Diploma)	B	Half the number as required for Under Graduate Degree Course in the same Programme	Half the number as required for Under Graduate Degree Course in the same Programme	15 % (Max. 150)	Minimum 10		
Engineering and Technology (Under Graduate)	B	100# 50 per* Course	500xB# 250 per* Course	15 % (Max. 150)	Minimum 10		
Planning (Under Graduate)	B	100# 50*	400xB# 400xB*				
Applied Arts and Crafts/ Design (Under Graduate)	B	100# 50*	500xB# 500xB*				
Hotel Management and Catering Technology (Under Graduate)	B	100# 50*	500xB# 500xB*				
Engineering and Technology/Planning/ Applied Arts and Crafts/ Design/Hotel Management and Catering Technology (Post Graduate)	B	50# As\$ Required	200# 100\$	25 % (Max. 100)			
MCA/ PGDM/ MBA (Post Graduate)	B	100# 50*	500xB# 500xB*				

B - Number of Divisions at First year

1#	Book Titles and Volumes required at the time of starting a new Technical Institution equally distributed per subject.
2*	Annual Increment equally distributed per subject.
3	Total number of Titles and Volumes shall be increased in continuation till 10 years from the starting of the course(s), which shall be the minimum stock of Books. Institutions shall have to add an annual increment of Books based on the changes in Curriculum and Syllabus from time to time by the affiliating University/Board. NOTE: After 10 years as per the Affiliating Body Curriculum and Syllabus, the Older Edition Books shall be replaced with latest edition by 5% of the total minimum Books required for that Programme.
4\$	Component for additional Division/ Course.
5	Books shall also include subjects of Science, Humanities, Management and Social Science as per the requirements of the Curriculum and Syllabus.
6	Digital Library facility with multimedia facility is essential.
7	Reprographic facility in the Library is essential.
8	Document scanning facility in the Library is essential.
9	Library Books/non Books processing as per the standard classification and cataloguing systemises sential.
10	Facilities to access the Online Courses is essential.
11	Library automation software including Bar coding is desirable.
12	Upto 66% of the total number of Titles and Volumes may be in the form of e-books with intranet access is mandatory in case of Post Graduate Level Programme(s) and shall be desirable in case of UG/ Diploma Programme(s). Member in NDL/ Indian National Digital Library in Engineering Sciences and Technology (INDEST) or any other National Consortium is permissible for e-books.
13	The Institution shall be a member of National Digital Library. Aggregators shall also be used.
14	NDL membership for faculty and students is highly desirable.



GAYATRI VIDYA PARISHAD COLLEGE OF ENGINEERING FOR WOMEN

Madhurawada, Visakhapatnam - 530 048

(Approved by AICTE, New Delhi and Affiliated to Andhra University, Visakhapatnam from 2022-2023)

(Affiliated to JNTUK-Kakinada upto 2021-2022)

(Accredited by NAAC with "A" from 2022 to 2027)

CSE, ECE and IT Courses Accredited by NBA (2019-2022) and Re-Accredited by NBA (2022-2025)

EEE Course Accredited by NBA (2023-2026)

Ph : 0891-2739144, Fax : 0891-2526639, e-mail : gvpcew@gmail.com Website : www.gvpcew.ac.in

REQUIRED NO. OF TITLES & VOLUMES IN PRINT IN LIBRARY DETAILS AS PER AICTE NORMS

YEAR	No. of Courses	No. of Titles	Total Titles	YEAR	No. of Courses	No. of Volumes	Total Volumes
2008-2009			100	2008-2009	4	500	2000
2009-2010	4	50	200*	2009-2010	4	250	1000*
2010-2011	4	50	200*	2010-2011	4	250	1000*
2011-2012	4	50	200*	2011-2012	4	250	1000*
2012-2013	4	50	200*	2012-2013	4	250	1000*
2013-2014	4	50	200*	2013-2014	4	250	1000*
2014-2015	4	50	200*	2014-2015	4	250	1000*
2015-2016	4	50	200*	2015-2016	4	250	1000*
2016-2017	4	50	200*	2016-2017	4	250	1000*
2017-2018	4	50	200*	2017-2018	4	250	1000*
2018-2019	4	50	200*	2018-2019	4	250	1000*
2019-2020	5	50	250*	2019-2020	4	250	1000*
2020-2021	5	50	250*	2020-2021	5	250	1250*
2021-2022	5	50	250*	2021-2022	5	250	1250*
2022-2023	5	50	250*	2022-2023	5	250	1250*
TOTAL			3050	TOTAL			16750

* Yearly increment

AVAILABLE IN GAYATRI VIDYA PARISHAD COLLEGE OF ENGINEERING FOR WOMEN

No. of Titles (Print) - 4518

No. of Volumes (Print) - 22013

GVP College of Engineering for Women
Madhurawada
Visakhapatnam-530048

G.V.P.COLLEGE OF ENGINEERING FOR WOMEN

LIBRARY COLLECTION

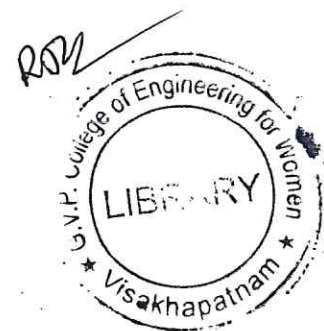
Sl. No.	Description	Library Area 4306 Sq.ft
I Library Timings		
1.	All Working Days	7.00 A.M To 7.00 P.M
2.	2 nd Saturday	9.00 A.M To 5.00 P.M
3.	Every Sunday	9.00 A.M to 1.00 P.M
II Circulation Timings		
1.	All Working Days	10.00 A.M To 5.00 P.M
2.	2 nd Saturday	9.00 A.M To 12.00 Noon
III Digital Library Timings		
1.	All Working Days	7.00 A.M To 7.00 P.M
2.	2 nd Saturday	9.00 A.M To 5.00 P.M
IV Library Collection		
A BOOKS		
1.	No of Volumes (Print)	22013
2.	No of Titles (Print)	4518
3.	No of Reference Books (included in total books)	3430
3.	No of Volumes (E – Books)	2650
B. Book Bank Books		
1.	No of Volumes	225
2.	No of titles	89
C. PRINT JOURNALS / MAGAZINES		
1	National (Print)	54
2	International (Print)	39
3	Magazines (Print)	15
4	Newspapers	07
5	Back Volumes of Journals	07
5	Back Volumes of Journals	638
D. E-Resources		
1	E-Journals (IEEE, DELNET)	1100
2	E-Books (DELNET)	10676
	Engineering Related E-books(included in total)	2650
	CDs/DVDs	1136
	NPTEL Video Lectures	Available
E. PROJECT REPORTS		
1.	UG Project Reports	864
2.	PG Project Reports	31
3.	Old Question Papers	Available
4.	Member of NDL & DELNET	Yes
F. SPECIAL COLLECTION		
1.	Rare Books (included in total)	25
	Gift Books (included in total)	242



G.V.P.COLLEGE OF ENGINEERING FOR WOMEN

LIBRARY COLLECTION

1	BOOKS	
	No of Volumes (Print)	22013
	No of Titles (Print)	4518
2	PRINT JOURNALS & MAGAZINES	54
	National	39
	International	15
	General Magazines	07
3	E- Resources	
	E-Journals - IEEE – International , DELNET	1100
	International E-Books (DELNET)	10676
	Engineering Related E- books(included in total)	2650



APPENDIX-10

Subscription of Journals

Programme	Total Number of Courses	Journals Published in India	Journals Published at Abroad
Engineering and Technology Planning/ Applied Arts and Crafts/ Design/ Hotel Management and Catering Technology (Diploma)		Journals /Periodicals / Magazines Providing Exposure to New Products/ Ideas/Concepts etc.	
Engineering and Technology (Under Graduate)	N	6x N [#]	Desirable
Planning (Under Graduate)	N	6x N #	
Applied Arts and Crafts/ Design (Under Graduate)	N	6x N #	
Hotel Management and Catering Technology (Under Graduate)	N	6x N #	
Engineering and Technology Planning/ Applied Arts and Crafts/ Design/ Hotel Management and Catering Technology (Post Graduate)	N	6x N #	
Management (MBA/ PGDM) / Computer Applications (MCA) - (Post Graduate)	N	6x N #	

All the Journals in the Library are to be "subscribed" and at least 25% are to be indexed by Scopus/ Web of Science/ Medline

NOTE: Subscription may NOT necessarily mean Individual Procurements, but can be part of University /State / Group of Institutes in a "Consortium".

It is desirable to procure the hard copy of Journals published abroad. However, subscription to Journals published in India is essential. Subscription to e-journals are recommended.

As per the Programme(s)/Course(s) offered by the Institution, relevant e-journals from Web of Science or Scopus shall be subscribed.

The e-Shodh Sindhu is providing support in negotiating the prices of e-resources to AICTE approved Technical Institutions. The same shall be explored by the Institutions.

Journals shall also include subjects of Science, Humanities, Management and Social Science.

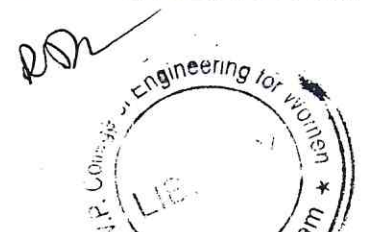


JOURNALS (PRINT / E-JOURNALS)
GAYATRI VIDYA PARISHAD COLLEGE OF ENGINEERING FOR WOMEN
MADHURAWADA, VISAKHAPATNAM - 530048

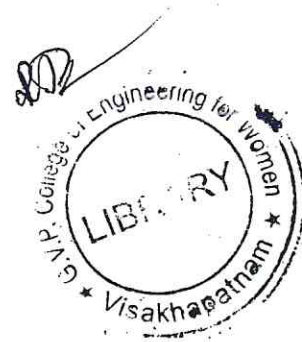
LIST OF PRINT JOURNALS AND MAGAZINES - 2023		
S.NO	TITLE	Publisher
	COMPUTER SCIENCE/ AI & ML	
1	International Journal of computing and Applications	Serial
2	Journal of Cybernetics and Systems	Serial
3	International Journal of Image processing & pattern Recognition	STM
4	Journal of the Institution of Engineers -Computer Engg	Springer
5	Journal of Nano Science,Nano Engineering applications	STM
6	Journal of Production Research & Management	STM
7	Research Reviews: Journal of Statistics	STM
8	Recent trends in Parallel Computing	STM
9	Journal of Computer Science	IUP
10	World digital libraries :An international journal	TERI
11	Prabandhan : Indian Journal of Management	IJM
12	Indian Journal of Computer Science	IJM
13	International Journal of Digital Electronics	STM
14	Internationa Journal of Computational Intelligence & Telecommunication System	Serial
15	International Journal of Data Analysis & Information System	Serial
16	Recent Trends in Artificial Intelligence & it's Application	MAT
17	Journal; of Cyber Security, Privacy Issues & Challenges	MAT
18	Journal of Innovation in Data Science & Big data Management	MAT
	INFORMATION TECHNOLOGY	
1	E- Commerce for future Trends	STM
2	International Journal of Software Engineering & Computing	Serial
3	Information Technology	IUP
4	International Journal of Telecommunication & Emerging Technology	STM
5	International Journal of Wireless Network Security	STM
6	International Journal of Intelligent Information Processing	Serial
7	Current Science	IAS

RDR
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ELECTRONICS & COMMUNICATION ENGG		
1	Journal of Communications Engineering & Systems	STM
2	Microwave Engineering	Serial
3	Electronics design & Technology	STM
4	IETE Journal Research	IETE
5	IETE Technical Review	IETE
6	IETE Journal Education	IETE
7	Telecommunication	IUP
8	Trends on Opto-Electro & Optical Communication	STM
9	Journal of the Institution of Engineers - Electronics & Telecommunication	Springer
10	International Jrl of Advanced VLSI Design	Serial
11	International Jrl of Analog circuits VLSI and bioelectronics	Serial
12	International Jrl of Electronics Engineering	Serial
13	Journal on VLSI Design Tools & Technology	STM
14	International Jrl of Micro and Nano Electronics Circuits & Systems	Serial
Magazines		
1	Electronics for You	EFY
ELECTRICAL & ELECTRONICS ENGG		
1	Journal of the Institution of Engineers - Electrical Engg	Springer
2	Trends in Electrical Engineering	STM
3	Power Engineering Journal	Society for Power Engg
4	Power Electronics and Power Systems	STM
5	Journal of International Association of Electricity Generation Transmission distribution	IAEGTD
6	CIGRE India Journal	ICLES
7	IEEMA Journal	
8	Electrical and Electronics Engineering	IUP
9	Teri information digest on Energy & Environment	TERI
10	Journal of Resources Energy and Development	TERI
11	Energy Future	TERI
Magazines		
1	Power Line	



	GENERAL Magazines	
1	India Today	
2	Employment News	
3	Pratiyogita Dharpan	
4	Civil Service Chronicle	
5	Competition Success Review	
6	G.K Today	
7	Banking Service Chronicle	
	Daily News Papers	
1	Hindu	
2	Indian Express	
3	Enadu	
4	Andhra Jyothi	
5	Sakshi	
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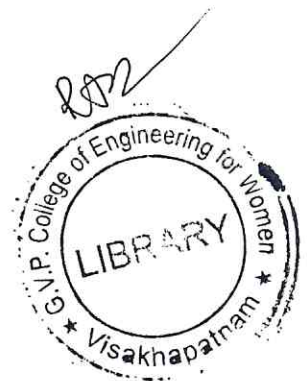
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EEE Course Accredited by NBA (2023-2026)

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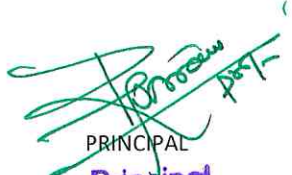
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List of the courses offered by the college (UG/PG) with intake

S.No	UG/PG	Course	2023-2024			2022-2023			2021-2022			2020-2021		
			Intake	Admitted	% of Admissions Excluding EWS	Intake	Admitted	% of Admissions Excluding EWS	Intake	Admitted	% of Admissions Excluding EWS	Intake	Admitted	% of Admissions Excluding EWS
1	UG	Computer Science & Engineering	240	Admissions under process	Admissions under process	180	167	92.77	120	119	99.16	120	116	96.66
2	UG	Electronics & Communication Engineering	120			120	90	75	120	106	88.33	120	103	85.83
3	UG	Information Technology	60			60	47	78.33	60	56	93.33	60	56	93.33
4	UG	Electrical & Electronics Engineering	60			60	29	48.33	60	28	46.66	60	20	33.33
		TOTAL	600			420	333	79.28	360	309	85.83	360	295	81.94

S.No	UG/PG	Course	2023-2024			2022-2023			2021-2022			2020-2021		
			Intake	Admitted	% of Admissions Excluding EWS	Intake	Admitted	% of Admissions Excluding EWS	Intake	Admitted	% of Admissions Excluding EWS	Intake	Admitted	% of Admissions Excluding EWS
5	PG	ECE – VLSI Design & Embedded Systems	12	Admissions Under process	Admissions Under process	12	0		NA	NA		NA	NA	


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PASS % IN PAST THREE YEARS

BRANCH :: COMPUTER SCIENCE & ENGINEERING

A.Y	2022-2023 (2019 BATCH)		2021-2022 (2018 BATCH)		2020-2021 (2017 BATCH)	
	Appeared	Graduated	Appeared	Graduated	Appeared	Graduated
No. of students	139	127	110	103	115	110
Pass %	91.37		93.64		95.65	



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PASS % IN PAST THREE YEARS

BRANCH :: ELECTRONICS & COMMUNICATION ENGINEERING

A.Y	2022-2023 (2019 BATCH)		2021-2022 (2018 BATCH)		2020-2021 (2017 BATCH)	
	Appeared	Graduated	Appeared	Graduated	Appeared	Graduated
No. of students	121	95	120	110	118	109
Pass %	78.51		91.67		92.37	


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PASS % IN PAST THREE YEARS

BRANCH :: ELECTRICAL & ELECTRONICS ENGINEERING

A.Y	2022-2023 (2019 BATCH)		2021-2022 (2018 BATCH)		2020-2021 (2017 BATCH)	
	Appeared	Graduated	Appeared	Graduated	Appeared	Graduated
No. of students	46	43	48	43	45	40
Pass %	93.47		89.58		88.89	


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PASS % IN PAST THREE YEARS

BRANCH :: INFORMATION TECHNOLOGY

A.Y	2022-2023 (2019 BATCH)		2021-2022 (2018 BATCH)		2020-2021 (2017 BATCH)	
	Appeared	Graduated	Appeared	Graduated	Appeared	Graduated
No. of students	62	50	46	45	52	48
Pass %	80.65		97.82		92.31	


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Department of Information Technology

Student Paper Publications for the last 3 Years

ACADEMIC YEAR	No. of Students Admitted into Higher studies
2022-2023	07
2021-2022	0
2020-2021	0

A Y:2022-2023

S.NO	Batch No.	Project Title (as printed on book)	Journal	Paper Link	Project Guide
1	B-4	Stock Time Series Data Prediction Using Machine Learning Techniques	IJRASET	https://drive.google.com/file/d/1d9KayNoZFCQTw8xNL0rJ0Ql40zXq1uG5/view?usp=share_link	Dr. D. K. Bebart
2	B-6	Leaf Disease Detection System Through Deep Learning Using CNN Model	IJIRT	https://ijirt.org/master/publishedpaper/IJIRT158648_PAPER.pdf	P.Sridevi
3	B-7	Interactive System for Gender Classification	IJRASET	https://doi.org/10.22214/ijras.et.2023.50602	G.Tirupati
4	B-8	Fashion Clothes Generation System using Deep Convolutional GAN	IJRASET	https://doi.org/10.22214/ijras.et.2023.50469	M.Deepthi
5	B-10	Supply Chain Monitoring and Authentication using Blockchain	IJRASET	https://doi.org/10.22214/ijras.et.2023.50615	M.Deepthi
6	B-11	Machine Learning Pipeline Model for Prediction of Stability in Smart Grid	Strad Research	https://drive.google.com/file/d/1bkrLtncmjO4X60wdgvOV8N5wVH8qndhP/view?usp=share_link	G.Tirupati
7	B-12	Detection of Kidney Disease using Machine Learning	IJRASET	https://www.ijraset.com/research-paper/detection-of-kidney-disease-using-machine-learning	R.Prasanna Kumari

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

STUDENT PAPER PUBLICATIONS (Both Journals and Conferences)

Sl.No.	Title of paper	Name of the author/s	Dept.	Name of journal	Year of publication	Number
1	Short term Load Forecasting Using Artificial Neural Networks and Fuzzy Logic	R Naga Saranya K Karuna R Sravani E Gayatri Dr R V S Lakshmi Kumari	EEE	First International Conference on Recent Trends and Innovations in Sustainable Electrical Energy Systems	2023	
2	Short term Load Forecasting Using Artificial Neural Networks	Dr R.V.S Laxmi Kumari B.Sahithi K.Monika M.Jahnavi S.Susheela	EEE	International journal of analytical and experimental modal analysis	2022	0886-9367
3	Design of Grid Independent EV Charging Station	Allamsetty Hema Chander Palakurthi Saranya Kethagani Sai Madhulika Chunduri Yamini Pendurthi Taruni Sri	EEE	2021 IEEE International Conference on Intelligent Systems, Smart and Green Technologies (ICISSGT)	2021	DOI 10.1109/ICISSGT52025.2021.00039
4	Implementation of Hysteresis Voltage Control for Different Inverter Topologies	M Chinnari T Mounika K Swetha Bharathi Allamsetty Hemachander	EEE	2020 IEEE India Council International Subsections Conference (INDISCON)	2020	DOI 10.1109/INDISCON50162.2020.00062

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Student Publications for the Academic Year 2023

S.No	Title of paper	Name of the Student/ Students	Name of Journal	Volume and issued
1	Crop Pest Classification Using Deep Learning Techniques	Naga Sai Harani N, Sai Tulasi Prasanna R, Sandhya Rani P and Chethanambhika P	International Journal on Research Journal of Agricultural Sciences	UGC Approved
2	Crop Yield Prediction Using Gradient Boosting Neural Network Regression Model	Sree Gunturu, Akkina Niharika, Ch. Rohitha Anupama, G. Srivalli	International Journal on Recent and Innovation Trends in Computing and Communication	Volume: 11 Issue: 3
3	A Study of the After-Effects of COVID-19 with an Emphasis on Potential Cardio-Thoracic Diseases through a Machine Learning Outlook	L. Gopika Varshini, L. Gopika Varshini P.V.S.LAKSHMI JAGADAMBA	International Journal of Computer Science and Mobile Computing	Vol.11 Issue.10, pg. 119-126

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Student Publications for the Academic Year 2022

S.no	Title of the paper	Name of the Student/Students	Name of Journal	Vol.,Issue,Page No.
1	Content-based SMS Spam Messages classification using Natural Language Processing and Machine Learning	Anjani Kintali, Srilekha Bontu	International Journal of Engineering Research in Computer Science and Engineering(IJERCSE)	Volume 8, Issue VII
2	Automatic Speech to Text Summarization Using Graph Based Algorithm	Garapati Sai Harshini, Kalla Gowri, Gandhi Yernamma	International Journal of Enhanced Research in Science, Technology & Engineering	Vol. 10 Issue 10,29-32
3	Blockchain Based Healthcare System DApp	Meghana Viyyapu, E.Laxmi Lydia, M.Ilayaraja, R. Pandi Selvam, Irina V.Pustokhina, Denis A. Pustokhin	International Journal of Advanced Science and Technology	Vol. 29, Issue 2
4	Comparative Study on Fake News Accuracy Prediction Using Naïve Bayes, SVM and ANN	Balaga Susmitha, Dasari Poornima	International Journal of Innovations in Engineering and Technology(IJIET)	Vol. 15 Issue 4


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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Student Publications for the Academic Year 2021

S.No	Title of paper	Name of the Student/ Students	Name of Journal	Volume and issue
1	Automatic Speech to Text Summarization Using Graph Based Algorithm	Garapati Sai Harshini, Kalla Gowri, Gandhi Yernamma	International Journal of Enhanced Research in Science, Technology & Engineering	Vol. 10 Issue 10, PP 29-32
2	Content-based SMS Spam Messages classification using Natural Language Processing and Machine Learning	Anjani Kintali, Srilekha Bontu	International Journal of Engineering Research in Computer Science and Engineering (IJERCSE)	Volume 8, Issue VII


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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Student Publications for the Academic Year 2020

S.No	Title of paper	Name of the Student/ Students	Name of Journal	Volume and issued
1	Comparative Study on fake News Accuracy Prediction Using Naive Bayes, SVM and ANN	Balaga Sushmitha, Dasari Poornima	International Journal of Innovations in Engineering and Technology(IJIET)	Volume 15 Issue 4
2	Gender Identification from Facial Fetures	D.Lakshmi Pujitha, D.Mounika	International Journal of Innovations in Engineering and Technology(IJIET)	Volume 15 Issue 4
3	Chronic Kidney Disease Prediction System	Ammavajjula Sai Tejaswi, Animilla Swapna Deepika	International Journal of Scintific Research in computer science and engineering and information technology	Vol.6, Issue-2
4	Detection and Prediction of Frequent Diseases in India through Association Technique using Apriori Algorithm and Random Forest Regression	P. Aishwarya, L.Kavitha	International Journal of Engineering Research and Technology	Vol.9, Issue-3
5	Information Extraction using image processing	G.Lavanya, K.V.S.S.Srinija, J.Pavani,	Journal of Engineering Technologies and Innovative	Volume 7, Issue 4


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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Student Publications for the Academic Year 2020

		Alim Sofia	Research	
6	Adaptive Frame Extraction and Action Recognition using Deep learning	K.S.S.Harshitha, G.Jayasree, B.S.Sameera, K.A.Varshini	Pramana Research Journal	
7	Optical Character Recognition using CRNN	Haritha Chandrika P,Kambala Monica Sai	International Journal of Innovations in Engineering and Technology(IJiet)	
8	Text summerization using Deep Learning	Divya K, Sowmya	International Journal of Innovations in Engineering and Technology(IJiet)	
9	Plant Disease Prediction System using Image Processing	B Uma Jagadeswari, D harshitha, G Vineela, B Siri	International Journal of Scientific Research in Computer Science, Engineering and Information Technology	Volume 6, Issue 3
10	Alert System for Driver drowsiness using Rasberry PI	K.Aiswarya, Ch.Lavanya, A.Mounika, A.Prathyusha	Journal of Engineering Technologies and Innovative Research	Volume:7 Issue:5


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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

S.No	Project batch No	Title of the Paper	Authors Name	Publication Journal/Conference Name	Guide Name
1	10	Design and implementation of approximate booth multiplier using different 4:2 compressors	G.V. Spandana, J. Manideepika, B. Usha Sri , M. Divya, B. Lakshmi	TIJER , ISSN 2349-9249 ,April 2023, Volume 10, Issue 4	B. Lakshmi
2	01	Design of Animal Detection System using TinyML	Ushmitha Annapaneni, Bhagyalaxmi Balaga, Sai Ramya Gariki, P V K Chaitanya	International Journal for Research Trends and Innovation Volume 8, Issue 4 ISSN: 2456-3315	P V K Chaitanya
3	17	Smart Cap For Visually Impaired People	P.Bhargavi, P.Pravallika, K.Rajyalakshmi, P.Navithasri, P.SriKruti	Journal of Emerging Technologies and Innovative Research (JETIR) April 2023, Volume 10, Issue 4, (ISSN-2349-5162)	P V K Chaitanya
4	15	Design and Implementation of a Patch Antenna with Multiple Dielectric Substrates for Gain Enhancement used in WiMAX Applications K. Vanda	K. Vandana, G. Jyothsna, A. Sameera, Ch. Rejeena, N.V. Maheswara Rao	TIJER - INTERNATIONAL RESEARCH JOURNAL	N V Maheswara Rao
5	9	Design and Implementation of Vehicle Safety and Security System	K.Chandrika, M.Himaja, J.Sreeya, G.Rishitha	TIJER ISSN 2349-9249 © March 2023 Volume 10, Issue 3	B.Vijayalakshmi
6	14	Biometric Authentication Smart Door Lock System	Dr. L. Ganesh, M. S. Subrahmanyeswari, K. Pravallika, Ch. Gyanamruta, G. Prasuna Sai	International Journal of Innovative Research in Technology, Vol.09, Issue 11, pp.409-413, ISSN: 2349-6002, April 2023	Dr.L.Ganesh
7	M.Tech 2020 admitted batch	Design of Generic Mesochronous FIFO using DPRAM	Ch.Sree Harshitha, B.Lakshmi	International Journal for Modern Trends in Science and Technology.9(02) : 221-226,2023 ISSN : 2455-3778 online	B. Lakshmi
8	20	Implementation of Stock Management system with a smart trolley	M. Mani Kumari, V. Usha, U. Sai Sowmya Sri, S. Gayathri, R. Sireesha	International Journal of Engineering Applied Sciences and Technology, vol 8 Issue 01, ISSN N0:2455-2143, PP 117-124	M.Mani Kumari
9	11	Weather Observation using Pulse Compression Technique in Space Borne Radar	M.Anusha. G.Kaveri, A.Priyanka. B.Pushpalatha N.Roopavathi	TIJER ISSN 2349-9249 © March 2023 Volume 10, Issue 3	N.Roopavathi



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DEPARTMENT OF INFORMATION TECHNOLOGY

COURSE CERTIFICATION

S No	Roll Number	Name	Title	Course Provider
1	20JG1A1217	KADAGALA BHARGAVI	JAVA PROGRAMMING	Coursera
2	19JG1A1218	KODUKULA VENKATA SATYA SIRISHA	Create your first web app with Python and Flask	Coursera Project
3	19JG1A1218	KODUKULA VENKATA SATYA SIRISHA	Neural Networks and Deep Learning	Coursera [DeepLearning.ai]
4	19JG1A1218	KODUKULA VENKATA SATYA SIRISHA	Create Charts and Dashboards Using Microsoft Excel	Coursera Project Network
5	20JG1A1251	THOLUCHURI KAVYASRI	PYTHON PROGRAMMING	Sigma group of Institute of Engineering
6	20JG1A1252	TORLAKONDA VYSHNAVI	Python	Sigma group of Institute of Engineering
7	20JG1A1252	TORLAKONDA VYSHNAVI	Data analytics	Forage
8	20JG1A1259	VINNAKOTA RESHMI SAI	Python for data structures	Sololearn
9	20JG1A1259	VINNAKOTA RESHMI SAI	Python for beginners	Sololearn
10	20JG1A1259	VINNAKOTA RESHMI SAI	C	Sololearn
11	20JG1A1254	VANAMALI SIRISHA	AI for Women	GUVI
12	20JG1A1254	VANAMALI SIRISHA	Java Full Stack	Pantech E learning and SkillAP APSSDC
13	20JG1A1254	VANAMALI SIRISHA	AWS ACADEMY CLOUD FOUNDATIONS	AWS academy
14	20JG1A1258	VINJAMURI SATHYA NAGA LAKSHMI GIREESHMA	C++	MY MAPTAIN
15	20JG1A1258	VINJAMURI SATHYA NAGA LAKSHMI GIREESHMA	JAVA	MY CAPTAIN
16	20JG1A1258	VINJAMURI SATHYA NAGA LAKSHMI GIREESHMA	GRAPHIC DESIGNING	MY CAPTAIN
17	20JG1A1259	VINNAKOTA RESHMI SAI	Software engineering and Agile software development	Infosys springboard
18	21JG5A1204	PASUPULETI RAJESWARI	C programming	Solo learn
19	19JG1A1203	A APOORVA	DEVOPS ASSOCIATE	CLOUD TRAIN
20	19JG1A1203	APOORVA A	WEB DEVELOPMENT TRAINING	CORIZO
21	19JG1A1224	LAKSHMI SAHANA	Course on sql	360digitmg
22	19JG1A1218	KODUKULA VENKATA SATYA SIRISHA	ETHICAL HACKING	IIT KHARAGPUR

Head of the Department

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Students Participation In National/International Conferences

Sl. No.	Name of the Students	Title of the paper	Name of the conference	National / International	Year of Conference
1	P. Jyothi sri, R. Mani Neeharika, S. Priyanka Rao, K. B. S. Harshini,	"Smart Tele-Healthcare right to your door using Blockchain and IPFS" is presented for presentation in the 2023, 6th International Conference on Intelligent Computing and Control Systems (ICICCS2023) to be held in Madurai, India during May 17-19, 2023.	6th IEEE International Conference on Intelligent Computing and Control Systems (ICICCS2023)	International	May 17-19, 2023
2	Indumati Perumal	Implementation of mid day meal scheme into limelight	2022 International Conference on Computing Communication and Power Technology	International	2022
3	Dharani Kandula	Forecast of COVID-19 by Chest X-Ray Images using CNN Algorithm with Sequential and DenseNet Models	2022 International Conference on Breakthrough in Heuristics And Reciprocation of Advanced Technologies (BHARAT)	International	Oct,2022
4	G Lingam, B Yaraswini	An Improved Bot Identification with Imbalanced Data using GG-XGBoost	2nd International Conference on Intelligent 2022	International	2022
5	K.Jyostsna	"FOOD TRACEABILITY IN SUPPLY CHAIN USING THE CONCEPT OF BLOCKCHAIN "	Accepted for presentation in the 2021 International Conference on Artificial Intelligence and Blockchain Technology (AIBT2021) to be held in Beijing, China.	International	June 25-June 27, 2021.
6	YV sanjusha,parmeennisha,y. buvuna,himaja	Diagnosis of Lung Cancer Nodules in CT Scan Images using Fuzzy Neural Network	IEEE 8th International Conference for Convergence in Technology (I2CT)	International	MAY -27 2023
7	K.Anusha, Ch.Kamala Varsha, M.Deepthi, G.Keerthi	Detection of Network Layer Attacks in Wireless Sensor Network	"International Conference on Recent Innovations in Science,Engineering and Technology (ICRISET-2023)"	International	19-20 May 2023
8	Jhansi Lakshmi Nannuri ,Harshini Tatavarthi, Joshna Rangula,Sucharitha Vallamsetti	Customer Segmentation in Retailing using Machine Learning Techniques	IEEE 8th International Conference for Convergence in Technology (I2CT)	International	7-9 April 2023



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Department of Information Technology

MICROSOFT CERTIFICATIONS

S NO	ROLL NUMBER	STUDENT NAME	MICROSOFT EXAM NAME
1	20JG1A1212	TRIPURA SAI RAMYA GUDAPATI	Azure Fundamentals
2	20JG1A1214	GUGGILAPU BHARATHI	Azure AI Engineer Associate
3	20JG1A1215	VAISHTNAVI GUNAPU	Azure Administrator associate
4	20JG1A1217	KADAGALA BHARGAVI	Azure AI Engineer Associate
5	20JG1A1226	KOTI MARY	Dynamics 365 fundamentals(CRM)
6	20JG1A1227	JAYA SATYA DURGA KUMPATLA	Azure AI Fundamentals
7	20JG1A1230	DHARANI LOCHARLA	Microsoft Certified: Azure Developer Associate
8	20JG1A1233	MANNE DHARANI	Azure AI Fundamentals
9	20JG1A1237	MODEKURTI KRUTHI	Azure Data Scientist Associate
10	20JG1A1242	PEDIREDLA SRI VARSHA	Azure Administrator associate
11	20JG1A1244	PRASANTHI ADIDELA	Azure Administrator Associate
12	20JG1A1247	SANKHYA GUDIVADA	Azure AI Fundamentals
13	20JG1A1252	TORLAKONDA VYSHNAVI	Azure development (AZ-204)
14	20JG1A1254	SIRISHA VANAMALI	Azure Developer Associate
15	20JG1A1259	RESHMI SAI VINNAKOTA	Azure Administrator Associate
16	21JG1A1217	HARITHA SRI GANAPAVARAPU	Azure Administrator Associate
17	21JG1A1223	PRANAVI KANNEPOGU	Azure Administrator Associate
18	21JG1A1233	NIKHITHA MOTAMARRY	Azure Administrator Associate

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DEPARTMENT OF INFORMATION TECHNOLOGY

HACKATHON

S No	Roll Number	Name	Name of Event	Name of Institute
1	19JG1A1225	LALAM NIKITHA	SMART INDIA HACKATHON 2022-" Predictive Analytic Solutions using AI"	AICTE
2	19JG1A1227	LOTHUGEDDA JAHNAVI		
3	19JG1A1231	NALLALA LEELA VEERA SURYA PARVATHI		
4	19JG1A1241	SAMBANGI YASWANTHI		
5	19JG1A1242	SANA VANDANA		
6	19JG1A1256	YEMINEDI LEESHMA		
7	20JG1A1223	KASUKURTHI HARIKA	Codespire	Hackathon
8	20JG1A1247	SANKHYA GUDIVADA	The Tri-NIT Hackathon	National Institute of Technology , (NIT) Trichy
9	20JG1A1252	VYSHNAVI	Healthon-Datathon	H2S skills
10	19JG1A1218	KODUKULA VENKATA SATYA SIRISHA	Codathon - PICSL(GVPCEW Club)	GAYATRI VIDYA PARISHAD COLLEGE OF ENGINEERING FOR WOMEN

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DEPARTMENT OF INFORMATION TECHNOLOGY

INTERNSHIPS

S No	Roll Number	Name	Title	Name of Institute
1	20JG1A1229	LEKKALA SUPRIYA	Web Development	1STOP
2	20JG1A1231	LOGISA SATWIKA	Web Development	1STOP
3	20JG1A1249	SATTI SATYA SRI	Web Development	1STOP
4	20JG1A1251	THOLUCHURI KAVYASRI	Web Development	1STOP
5	20JG1A1252	TORLAKONDA VYSHNAVI	Machine learning	1STOP
6	20JG1A1252	TORLAKONDA VYSHNAVI	Web Development	1STOP
7	20JG1A1254	VANAMALI SIRISHA	Web Development	1STOP
8	20JG1A1254	VANAMALI SIRISHA	Machine Learning	1STOP
9	20JG1A1258	VINJAMURI SATHYA NAGA LAKSHMI GIREESHMA	Artificial Intelligence	1STOP
10	21JG5A1202	MANTHINA LAYASREE	Machine learning	1STOP
11	21JG5A1205	ROKKAM GOWTHAMI	Machine Learning	1STOP
12	20JG1A1249	SATTI SATYA SRI	STUDENT LEARNING ASSESSMENT	AICTE
13	20JG1A1217	KADAGALA BHARGAVI	INTERNSHIP	LestGrowMore
14	21JG5A1205	ROKKAM GOWTHAMI	Internship	AWS
15	20JG1A1233	MANNE DHARANI	Internship - Artificial Intelligence with python	Coincent
16	20JG1A1252	VYSHNAVI	web development	Let's grow more
17	19JG1A1228	MALLIPUDI VIJAYA	Salesforce Developer Virtual Internship	Smart Internz
18	20JG1A1244	ADIDELA PRASANTHI	Data Analytics Consulting	FORAGE
19	20JG1A1206	DIVI YASHASWINI	Data Analytics Consulting	FORAGE

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

~~Table 4.7.6.1~~ Prizes/ awards received in events

~~Table 4.7.6.1~~: Prizes/ awards received for the Academic Year 2023-2022

S.No.	Roll No	Name	Technical Event	Date	Award	Venue
1.	19JG1A04A0	T. ALEKHYA	NSTL EXPO	18 TH FEB, 2022	CONSOLATION	NSTL, VIZAG
2.	21JG1A0436	D JAHNAVI	NSTL EXPO	8 TH ,9 TH & 10 TH MAY,2023	PARTICIPATION	NSTL, VIZAG
3.	21JG1A0498	SNEHA SHARMA	NSTL EXPO	8 TH ,9 TH & 10 TH MAY,2023	PARTICIPATION	NSTL, VIZAG
4.	21JG1A0436	S YASASWINI	NSTL EXPO	8 TH ,9 TH & 10 TH MAY,2023	PARTICIPATION	NSTL, VIZAG
5.	19JG1A04A6	V USHA	NSTL EXPO	8 TH ,9 TH & 10 TH MAY,2023	PARTICIPATION	NSTL, VIZAG


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DEPARTMENT OF INFORMATION TECHNOLOGY

STUDENT ACHIEVEMENTS

S NO	EVENT TYPE	EVENT	NO OF STUDENT PARTICIPATED	TOTAL
1	CERTIFICATIONS	NPTEL	89	176
		CISCO	69	
		MICROSOFT	18	
2	HACKATHONS	SMART INDIA HACKATHON 2022	6	10
		Healthon-Datathon	1	
		Codeathon	1	
		Other	2	
3	INTERNSHIPS	1STOP-INTERNSHIP	11	19
		AICTE	1	
		OTHER	7	
4	COURSE CERTIFICATION	COURSERA	4	22
		OTHER COURSES	18	
5	DEPARTMENT ACTIVITIES	STUDENT CLUB-"SPIKE"	6	6
6	EXTRA CIRRUCULAR ACTIVITIES	ESSAY WRITING	2	5
		CULTURAL ACTIVITIES	1	
		SPORTS	1	
		PROGRAMMING QUIZ	1	

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NPTEL CERTIFICATIONS CONSOLIDATED REPORT

SNO	ACADEMIC YEAR	NO OF STUDENTS CERTIFIED
1	2022-23	34
2	2021-22	9
3	2020-21	46
TOTAL		89

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NPTEL CERTIFICATIONS

AY: 2020-2021

SNO	ROLL NO	STUDENT NAME	Course Name	Exam Date
1	19JG1A1214	KALA ASLESHA	The Joy of Computing using Python	Jan-Apr 2021
2	15JG1A1236	SL AISWARYA	Introduction to Film studies	Jan-Apr 2021
3	18JG1A1231	BINATHI SRIYA	Programming in Java	Jan-Apr 2021
4	18JG1A1231	BINATHI SRIYA	Data Base Management System	Jan-Apr 2021
5	18JG1A1231	BINATHI SRIYA	An Introduction to Artificial Intelligence	Jan-Apr 2021
6	18JG1A1230	NEHA CHARAN	Data Science for Engineers	Jan-Apr 2021
7	18JG1A1206	BOBBA. SRIDEVI	Programming in Java	Jan-Apr 2021
8	18JG1A1203	SRIIPRATHYUSHAASAPU	Programming in Java	Jan-Apr 2021
9	18JG1A1239	P.SUSEE SAHITHI	Programming in Java	Jan-Apr 2021
10	18JG1A1239	P.SUSEE SAHITHI	Programming in Java	Jul-Dec 2020
11	18JG1A1235	BHAVYA PADMANABHUNI	Programming in Java	Jul-Dec 2020
12	18JG1A1235	BHAVYA PADMANABHUNI	Python for Data Science	Jul-Dec 2020
13	18JG1A1231	BINATHI SRIYA	Data Base Management System	Jul-Dec 2020
14	18JG1A1231	BINATHI SRIYA	Introduction to Operating Systems	Jul-Dec 2020
15	18JG1A1231	BINATHI SRIYA	Python for Data Science	Jul-Dec 2020
16	18JG1A1231	BINATHI SRIYA	Introduction to Programming in C	Jul-Dec 2020
17	18JG1A1221	M.DIVYA	Programming, Data Structures And Algorithms Using Python	Jul-Dec 2020
18	18JG1A1221	M.DIVYA	Design and analysis of algorithms	Jul-Dec 2020
19	18JG1A1215	G.V.VARSHITHA PATNAIK	Object Oriented Analysis and Design	Jul-Dec 2020
20	18JG1A1215	G.V.VARSHITHA PATNAIK	Software Engineering	Jul-Dec 2020
21	18JG1A1215	G.V.VARSHITHA PATNAIK	Software Testing	Jul-Dec 2020
22	18JG1A1215	G.V.VARSHITHA PATNAIK	Introduction To Haskell Programming	Jul-Dec 2020
23	18JG1A1215	G.V.VARSHITHA PATNAIK	Object Oriented System Development using UML, Java and Patterns	Jul-Dec 2020
24	18JG1A1215	G.V.VARSHITHA PATNAIK	Demystifying Networking	Jul-Dec 2020
25	18JG1A1215	G.V.VARSHITHA PATNAIK	Applied Natural Language Processing	Jul-Dec 2020



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26	18JG1A1215	G.V.VARSHITHA PATNAIK	Big Data Computing	Jul-Dec 2020
27	18JG1A1215	G.V.VARSHITHA PATNAIK	Introduction to algorithms and analysis	Jul-Dec 2020
28	18JG1A1215	G.V.VARSHITHA PATNAIK	C Programming and Assembly Language	Jul-Dec 2020
29	18JG1A1215	G.V.VARSHITHA PATNAIK	Applied Optimization for Wireless, Machine Learning, Big Data	Jul-Dec 2020
30	18JG1A1215	G.V.VARSHITHA PATNAIK	Image Signal Processing	Jul-Dec 2020
31	18JG1A1215	G.V.VARSHITHA PATNAIK	Computational Number Theory and Algebra	Jul-Dec 2020
32	18JG1A1215	G.V.VARSHITHA PATNAIK	Bandit Algorithm (Online Machine Learning)	Jul-Dec 2020
33	18JG1A1202	ANANYA DAKAMURI	Cloud computing	Jul-Dec 2020
34	18JG1A1202	ANANYA DAKAMURI	Introduction to Machine Learning	Jul-Dec 2020
35	18JG1A1202	ANANYA DAKAMURI	Artificial Intelligence Search Methods For Problem Solving	Jul-Dec 2020
36	18131A1232	INDLACHERUVU ARAVIND	Programming in Java	Jul-Dec 2020
37	17JG1A1228	MANASA	Introduction to Machine Learning	Jul-Dec 2020
38	17JG1A1228	MANASA	Fundamentals Of Artificial Intelligence	Jul-Dec 2020
39	17JG1A1212	SAI TANUJA	Introduction to Machine Learning	Jul-Dec 2020
40	17JG1A1212	SAI TANUJA	Fundamentals Of Artificial Intelligence	Jul-Dec 2020
41	17JG1A1209	B.JAYASREE	Problem solving through Programming In C	Jul-Dec 2020
42	17JG1A1209	B.JAYASREE	Programming, Data Structures And Algorithms Using Python	Jul-Dec 2020
43	17JG1A1204	B.TANUJA GUNASRI	The Joy of Computing using Python	Jul-Dec 2020
44	17JG1A1204	B.TANUJA GUNASRI	Introduction to Programming in C	Jul-Dec 2020
45	16JG1A1213	D.N.AISWARYA	Programming, Data Structures And Algorithms Using Python	Jul-Dec 2020
46	16JG1A1213	D.N.AISWARYA	The Joy of Computing using Python	Jul-Dec 2020

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NPTEL CERTIFICATIONS

AY: 2021-2022

SNO	ROLL NO	STUDENT NAME	Course Name	Certificate Type	Exam Date
1	19JG1A1225	LALAM NIKITHA	Data Analytics with Python	Successfully completed	2022-04-23
2	19JG1A1231	NALLALA LEELA VEERA SURYA PARVATHI	Ethical Hacking	Successfully completed	2022-04-23
3	19JG1A1247	THIRIVEEDHI KALYANI	Data Analytics with Python	Elite	2022-04-23
4	19JG1A1201	AV SANJANA SRI PRIYA	Data Analytics with Python	Successfully completed	2022-04-23
5	19JG1A1209	DOPPALAPUDI JYOTHIKA	Computer Vision and Image Processing " Fundamentals and Applications	Successfully completed	2022-04-23
6	19JG1A1220	KOTA SNEHA SAI SREE	Data Analytics with Python	Successfully completed	2022-04-23
7	19JG1A1227	LOTHUGEDDA JAHNAVI	Data Analytics with Python	Successfully completed	2022-04-23
8	19JG1A1245	KOLLA SREELEKHA	Data Analytics with Python	Elite	2022-04-23
9	20JG5A1204	GORRIPOTU ARUNA	Cloud computing	Successfully completed	2022-04-24

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NPTEL CERTIFICATIONS

AY: 2022-2023

SNO	ROLL NO	STUDENT NAME	Course Name	Certificate Type	Exam Date
1	20JG1A1244	ADIDELA PRASANTHI	Data Analytics with Python	Successfully completed	30-04-2023
2	21JG5A1205	ROKKAM GOWTHAMI	Cloud Computing	Elite	2023-04-30
3	20JG1A1205	CHENNUPATI CHANDINI PRIYA	Cloud Computing	Elite	2023-04-28
4	20JG1A1258	VINJAMURI SATHYA NAGA LAKSHMI GIREESHMA	Cloud Computing	Successfully completed	2023-04-28
5	20JG1A1227	KALAMRAJU NIHARIKA	Cloud Computing	Elite	2023-04-28
6	20JG1A1258	VINJAMURI SATHYA NAGA LAKSHMI GIREESHMA	Data Analytics with Python	Elite	2023-04-28
7	20JG1A1209	SAI KEERTHANA	Data Analytics with Python	Successfully completed	2023-04-28
8	20JG1A1223	KASUKURTHI HARIKA	Cloud Computing	Elite	2023-04-28
9	20JG1A1226	MARYKOTI	Cloud Computing	Successfully completed	2023-04-28
10	20JG1A1225	K B S ANJALI	Cloud Computing	Successfully completed	2023-04-28
11	20JG1A1204	HIMAJA CHEBOLU	Cloud Computing	Successfully completed	2023-04-28
12	20JG1A1248	SAPPA HIMAJA SRI	Cloud Computing	Successfully completed	2023-04-28
13	20JG1A1227	KUMPATLA JAYA SATYA DURGA	Cloud Computing	Elite	2023-04-28
14	21JG5A1202	MANTHINA LAYASREE	Cloud Computing	Elite	2023-04-28
15	20JG1A1245	NANDINI RAPETI	Cloud Computing	Elite	2023-04-28
16	20JG1A1207	RUCHITHA DOKI	Cloud Computing	Elite	2023-04-28



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17	20JG1A1231	LOGISA SATWIKA	Cloud Computing	Elite	2023-04-28
18	20JG1A1242	PEDIREDLA SRI VARSHA	Cloud Computing	Successfully completed	2023-04-28
19	20JG1A1250	TELAGAMSETTI MOUNIKA	Cloud Computing	Successfully completed	2023-04-28
20	20JG1A1210	GEMBALI KAVYA	Data Base Management System	Successfully completed	2022-10-29
21	20JG1A1207	DOKI RUCHITHA	Data Base Management System	Elite	2022-10-29
22	20JG1A1225	K B S ANJALI	Data Base Management System	Successfully completed	2022-10-29
23	20JG1A1248	SAPPA HIMAJA SRI	Data Base Management System	Elite	2022-10-29
24	20JG1A1219	KALAMRAJU NIHARIKA	Data Base Management System	Successfully completed	2022-10-29
25	20JG1A1205	CHENNUPATI CHANDINI PRIYA	Data Base Management System	Successfully completed	2022-10-29
26	20JG1A1247	SANKHYA GUDIVADA	Data Structure And Algorithms Using Java	Elite	2022-10-30
27	20JG1A1218	KADAGALA MOHINIDEVI	Cloud Computing	Elite	2022-10-30
28	20JG1A1257	VATTAM OMMIKA SAI VALLI TEJASWINI	Programming In Java	Elite	2022-10-30
29	20JG1A1216	JETTI PRAMITHA SRI	Programming In Java	Elite+Silver	2022-10-30
30	20JG1A1222	KARLAPUDI BHAGYA SREE	Programming In Java	Elite+Silver	2022-10-30
31	20JG1A1223	KASUKURTHI HARIKA	Programming In Java	Elite+gold	2022-10-30
32	20JG1A1226	MARYKOTI	Programming In Java	Elite+Silver	2022-10-30
33	20JG1A1238	MYLA BABY SOUMI	Programming In Java	Elite+Silver	2022-10-30
34	20JG1A1204	HIMAJA CHEBOLU	Programming In Java	Elite	2022-10-30

Head of the Department

Head of Department

Dept. of Information Technology Page

GVP College of Engineering for Women
Madhurawada, Visakhapatnam-48



GAYATRI VIDYA PARISHAD COLLEGE OF ENGINEERING FOR WOMEN

Kommadi, Madhuvaram, Visakhapatnam 530 048
(Approved by AICTE, New Delhi, Affiliated to Andhra University, Visakhapatnam)
(Accredited by National Board of Accreditation (NBA) for B.Tech CJE, ECE and IT - valid from 2019-22 and 2022-25)
(Accredited by National Assessment and Accreditation Council (NAAC) with A Grade - valid from 2022-2027)
Phone: +91-891-2739844, 2739124, 2719125, 2719127 Email id: gupcew@gmail.com, info@gupcew.ac.in

EAPCET
Counselling
Code
GVPW

Department of Information Technology

CISCO- CERTIFICATIONS

S No	Roll Number	First Name	Last Name	Cumulative Grade
1	19JG1A1244	CHINMAYI	SISTA	80.33%
2	20JG1A1205	Chandini Priya	Chennupati	84.00%
3	20JG1A1207	Ruchitha	Doki	92.00%
4	20JG1A1215	Vaishnavi	Gunapu	88.00%
5	20JG1A1217	BHARGAVI	KADAGALA	100.00%
6	20JG1A1218	KADAGALA	MOHINIDEVI	83.33%
7	20JG1A1219	Niharika	Kalamraju	97.33%
8	20JG1A1223	Kasukurthi	Harika	82.00%
9	20JG1A1228	LAVETI	LAKSHMI PRIYA	94.00%
10	20JG1A1229	KOTHA	KANAKASRI	90.00%
11	20JG1A1230	BABY SOUMI	MYLA	90.00%
12	20JG1A1237	Modekurti	Kruthi	92.00%
13	20JG1A1246	RUKSAR	BEGUM	74.00%
14	20JG1A1247	Ratna	Priya	76.67%
15	20JG1A1249	SATYA SRI	SATTI	96.00%
16	20JG1A1250	TELAGAMSETTI	MOUNIKA	90.00%
17	20JG1A1252	Vyshnavi	Torlakonda	98.00%
18	20JG1A1254	Sirisha	Vanamali	12.00%
19	20JG1A1257	VATTAM OMMIKA SAI VALLI	TEJASWINI	100.00%
20	21JG1A1202	Afreen	Begum	90.00%
21	21JG1A1204	AYYAGARI	SRIYA	18.00%
22	21JG1A1205	Boddu	Vijaya Laxmi	46.00%
23	21JG1A1206	SARITHA	BONGU	92.00%
24	21JG1A1207	SAI SRI	BOYINA	54.00%
25	21JG1A1210	Challa	Deepthi	86.00%
26	21JG1A1211	Vidhathri	Chintamaneni	88.00%
27	21JG1A1212	Hemalatha	Choppa	78.00%
28	21JG1A1213	DADI	SAI VENKATA ESWARA SRI	98.00%
29	21JG1A1214	Renduchintala	rukmini	87.33%
30	21JG1A1215	Gadi	Yasaswini Priya	100.00%
31	21JG1A1216	Durga Bhavani	Ganapavarapu	98.00%
32	21JG1A1217	GANAPAVARAPU	HARITHA SRI	96.00%
33	21JG1A1218	Lakshmi Manasa	Gavirni	94.00%
34	21JG1A1220	Hemalatha	Gudla	80.00%
35	21JG1A1222	Vanisree	Jagadala	74.67%
36	21JG1A1223	Pranavi	Kannepogu	84.00%



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Counselling
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Department of Information Technology

37	21JG1A1224	SRUJANA	TULASI	90.00%
38	21JG1A1225	Kodukula	Venkata Satya Manisha	96.00%
39	21JG1A1226	KESAPRAGADA	BHUVANA SRI ANUSHA	76.00%
40	21JG1A1227	S Divya	Sriyani	64.00%
41	21JG1A1228	Gnanalekha	Darlapoodi	98.00%
42	21JG1A1229	Navya	Kolli	98.00%
43	21JG1A1230	Likitha	Kundala	98.00%
44	21JG1A1231	M Lakshmi Prasanna Chandra	Magapu	66.00%
45	21JG1A1232	Ruchitha	Mentreddi	84.00%
46	21JG1A1233	Nikhitha	Motamarry	98.00%
47	21JG1A1234	Keerthi Priya	Nalla	86.00%
48	21JG1A1235	Nalli Amitha	suji	100.00%
49	21JG1A1236	NIKHITHA SIVA DURGA	YERRA	84.00%
50	21JG1A1237	vidya vallika	nimmana	92.00%
51	21JG1A1242	Manthina	Layasree	100.00%
52	21JG1A1246	Pooja	Bhala	100.00%
53	21JG1A1248	Raghupatruni	Khyathi	96.00%
54	21JG1A1249	PALLI	SHYAMILI	94.00%
55	21JG1A1250	Robbi	Dhatri	98.00%
56	21JG1A1251	Supriya	KASARAPU	96.00%
57	21JG1A1253	Nafisa Naz	Shaik	96.00%
58	21JG1A1256	DHARANI	LOCHARLA	98.00%
59	21JG1A1257	Jhansi rani	Taddi	90.00%
60	21JG1A1262	Sai Chitti Prasanthi	Vungarala	78.00%
61	21JG5A1202	SANKHYA	GUDIVADA	92.00%
62	21JG5A1203	mummana	Prathyusha	100.00%
63	21JG5A1204	RAJESWARI	PASUPULETI	96.00%
64	21JG5A1205	GOWTHAMI	ROKKAM	94.00%
65	21JG5A1206	Vasupilli	Revathi	98.00%
66	21JG5A1208	Prashanti	Veturi	99.00%
67	22JG5A1201	Mounika	Bathula	84.00%
68	22JG5A1206	Dohiya	Shaik	88.00%
69	22JG5A1207	SIDDA	YAMINI	92.00%

Head of the Department

Head of Department
Dept. of Information Technology
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Accredited by NAAC with "A" from 2022 to 2027

CSE, ECE and IT Courses Accredited by NBA (2019-2022) and Re-accredited by NBA (2022-2025)

Ph : 0891-2739144 Fax : 0891-2526639 e-mail: gvpcew@gmail.com Website: www.gvpcew.ac.in

Department of Computer Science and Engineering

List of Innovative Projects

Sl. No.	Project	Batch Members	Roll No.s	Guide	Remark
1	Driver drowsiness detection system	N.VIRIJA SOWJANYA ,A.GAYATHRI	18JG1A0570, 18JG1A0501	V.LAKSHMAN RAO, D.INDU	Summer Internship : 2023 In collaboration with CloudKarya and GVP
2	DosaBot	Bhuvana Gayathri Kanakala Sravani Maddala	20JG1A0537 20JG1A0557	Dr.V.Lakshmana Rao	
3	Lung X-Ray:Abnormality Detection	Gunnu Sravani Mamidala Gautami Meghana Chebolu	20JG1A0527 20JG1A0561 20JG1A0566	Dr.V.Lakshmana Rao	
4	Information Retrieval System	GADU BHAVYA YASASWINI Chaganti Soumya Sri GADU GAYATRI	18JG1A0525 19JG1A0518 19JG1A0538	A.Udaya Kumar	Integrated Project
5	Smart Mirror	BHAMIDIPATI VENKATA SAI LAKSHMI SUPRAJA ELURI MAHALAKSHMI GADU BHAVYA YASASWINI KASIREDDY SUSMITHA REDDY	18JG1A0510 18JG1A0524 18JG1A0525 18JG1A0547	A. Udaya Kumar, K.Purushotam Naidu	Presented in Project Exhibition on Jan 26th 2021
6	Arduino Uno based IoT Visitor Counter System	ADAPAKA GAYATHRI	18JG1A0501	A.Udaya Kumar	
7	Face Touch Alert Device	KALAVALAPALLI PRAPOORNA	18JG1A0539	A.Udaya Kumar	Presented in Project Exhibition on Jan 26th 2021

8	Suicide Tendency Prediction in COVID-19 Posts using Deep Learning Models	N. S.V.M. Sindhuja	18JG1A0572	Ms. K. Rohini	Academic Project
9	Adversarial Attacks and Defense using Deep learning	P. Sahithi Sarika	18JG1A0583	Dr.P.V.S.Lakshmi Jagadamba	Academic Project
10	TEXT BASED SHOULDER SURFING REISISTANT GRAPHICAL AUTHENTICATION SYSTEM	T.Yasaswini	18JG1A0594	Mr.S.Sumahasan	Academic Project
11	EPILEPTIC SEIZURE PREDICTION USING MACHINE LEARNING AND DEEP LEARNING	S. Divya	18JG1A0585	Mr. V. Lakshmana Rao	Academic Project
12	lot based mobile app to monitor and analyse health care in daily life	V. Manogna	19JG1A05B6	Mrs. K. Rohini	Academic Project
13	BLOCKCHAIN BASED SMART TELEMEDICINE AND SECURE FILE SHARING SYSTEM USING IPFS	P. Jyothi Sri	19JG1A0587	Dr.N.Sharmili	Academic Project
14	Depression detection on Twitter posts using content featur:A Deep Learning Approach	P. Kavya	19JG1A0593	Dr.N.Sharmili	Academic Project
15	Customer and Product Segmentation in Retailing Using Machine Learning Techniques	T. Harshini	19JG1A05B5	Mrs V. Gowtami Annapurna	Academic Project
16	Lung Cancer Detection on CT scan Images using Image Processing Classification Techniques	Y. V. Sanjusha	19JG1A05C6	Mrs. D. Indu	Academic Project
17	DoS Attack Detection in Wireless Sensor Network	M. Harshitha	19JG1A0576	Mr. G. Sankara Rao	Academic Project
18	CATCH YOUR SESSION, TRACK YOUR PULSE e-health service using blockchain	K. Chandu	19JG1A0550	Dr.N.Sharmili	Academic Project
19	Chatbot for Disease Prediction and Treatment Recommendation Using Machine Learning	D. Suvarna Manjari	19JG1A0532	Dr. V. Lakshmana Rao	Academic Project

20	Crop Yield Prediction Using Gradient Boosting Neural Network Regression Model	G. Chaitanya Sree	19JG1A0519	Dr. K. Purushotam Naidu	Academic Project
21	A Lightweight Security Algorithm for Cloud Assisted - IoT	Gandi Dhanusha	19JG1A0539	Mr. S. Sumahasan	Academic Project
22	Classification of Diabetic Retinopathy Using Deep Learning Techniques	G. Gayathri	19JG1A0538	Ms. D, Indu	Academic Project
23	Detection of Malicious Social Bots using Variational Autoencoder GAN	G. Bhavya Yaraswini	18JG1A0525	Dr.P.V.S.Lakshmi Jagadamba	Academic Project
24	Air Canvas using YOLO Algorithm	Chelluri Sai Kusuma Keerthi	18JG1A0518	Mrs. Y Sowmya	Academic Project
25	Sign Language Detection using Autoencoders	B.V.S.L. Supraja	18JG1A0510	Dr.P.V.S.Lakshmi Jagadamba	Academic Project
26	A Node-Level Security Algorithm for Cloud Assisted-IoT	CH. Lakshmi Prasanna	18JG1A0517	Mr. S. Sumahasan	Academic Project
27	Energy Efficient OLSR Protocol for Manets	K. Prapoorna	18JG1A0539	Mr. A. Udaya Kumar	Academic Project
28	A DECENTRALISED PROTOTYPE FOR TRANSPARENT COVID-19 VACCINATION SYSTEM TO PREDICT MINIMAL REGINOAL CONGREGATION	K. Lalitha Rekha	18JG1A0541	Dr.N.Sharmili	Academic Project

Aleks

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Dept. of Computer Science & Engineering
GVP College of Engineering for Women
Madhurawada, Visakhapatnam-48



Gayatri Vidya Parishad College of Engineering for Women
Madhurawada, Visakhapatnam

Department of Electronics & Communication Engineering

BEST AND AVERAGE RATED PROJECTS

Academic year 2022-2023

(ECE)

Rated as Best Projects for the AY: 2022-23

S.No	BatchNo	Regd.No.	Title of the Project	Guide Name
1	18	19JG1A0479	RFID based Secure money access with Multiple Bank Affinity using Biometric Authentication	Dr D.V.A.N. Ravi Kumar
		19JG1A0480		
		20JG5A0413		
		19JG1A0487		
2	20	19JG1A04A6	Implementation of Quantity checking using RFID with smart trolley	Ms.M.Mani Kumari
		19JG1A04A3		
		19JG1A0492		
		19JG1A0482		
3	28	20JG5A0416	A Semi-Circular Patch Antenna With WiMAX Spectrum Rejection Properties For UWB Applications	Mr.S.Ramanjaneya Reddy
		19JG1A0485		
		19JG1A04A5		
		19JG1A0472		
4	13	19JG1A0422	Underground Drainage and manhole monitoring system	Ms Ch. Sirisha
		19JG1A0424		
		19JG1A0430		
		19JG1A0405		
5	16	19JG1A04A8	Malaria Disease Detection Using Image Processing	Dr. B P V Dileep
		19JG1A0486		
		19JG1A0497		
		19JG1A0490		
		19JG1A0471		

Rated as Average Projects for the AY 2022-23

6	14	19JG1A0459	Biometric Authentication Smart Door Lock System	Dr. L.Ganesh
		19JG1A0454		
		19JG1A0417		
		19JG1A0427		
7	2	19JG1A0401	Early prediction of Parkinson's disease from wave and spiral images using Image processing and machine learning technique	Dr D.V.A.N. Ravi Kumar
		19JG1A0455		
		19JG1A0439		
		19JG1A0446		
8	26	19JG1A04A4	Design and Implementation of High speed 10T SRAM Cell	Ms.B.Lakshmi
		20JG5A0401		
		20JG5A0404		
		19JG1A0496		
9	6	19JG1A0410	Implementation of Low Power Ternary and Quaternary Adder Circuits	Ms.M.Mani Kumari
		19JG1A0435		
		19JG1A0429		
		19JG1A0416		
10	5	19JG1A0450	Design of High Gain Microstrip Patch Antenna Using Multiple Dielectric Substrates for 5G Network Applications	Mr.NVMaheswararao
		19JG1A0423		
		19JG1A0402		
		19JG1A0414		

PROJECT CO-ORDINATOR

HEAD
HOD-ECE
DEPARTMENT OF
ELECTRONICS AND COMMUNICATION ENGINEERING
G V P COLLEGE OF ENGINEERING FOR WOMEN
MADHURAWADA VISAKHAPATNAM



GAYATRI VIDYA PARISHAD COLLEGE OF ENGINEERING FOR WOMEN

KONNADI, MADHURABADA, VISAKHAPATNAM - 530 048

(APPROVED BY AICTE, NEW DELHI, AFFILIATED TO ANDHRA UNIVERSITY, VISAKHAPATNAM)

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(ACCREDITED BY NATIONAL BOARD OF ACCREDITATION [NBA] FOR B.TECH EE VALID FROM 2023-24 TO 2025-2026)

(ACCREDITED BY NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL [NAAC] WITH A GRADE - VALID FROM 2022-27)

(Phone: +91-891-2739144, 2739124, 2719125, 2719127 Email Id: gvpcew@gmail.com, info@gvpcew.ac.in)

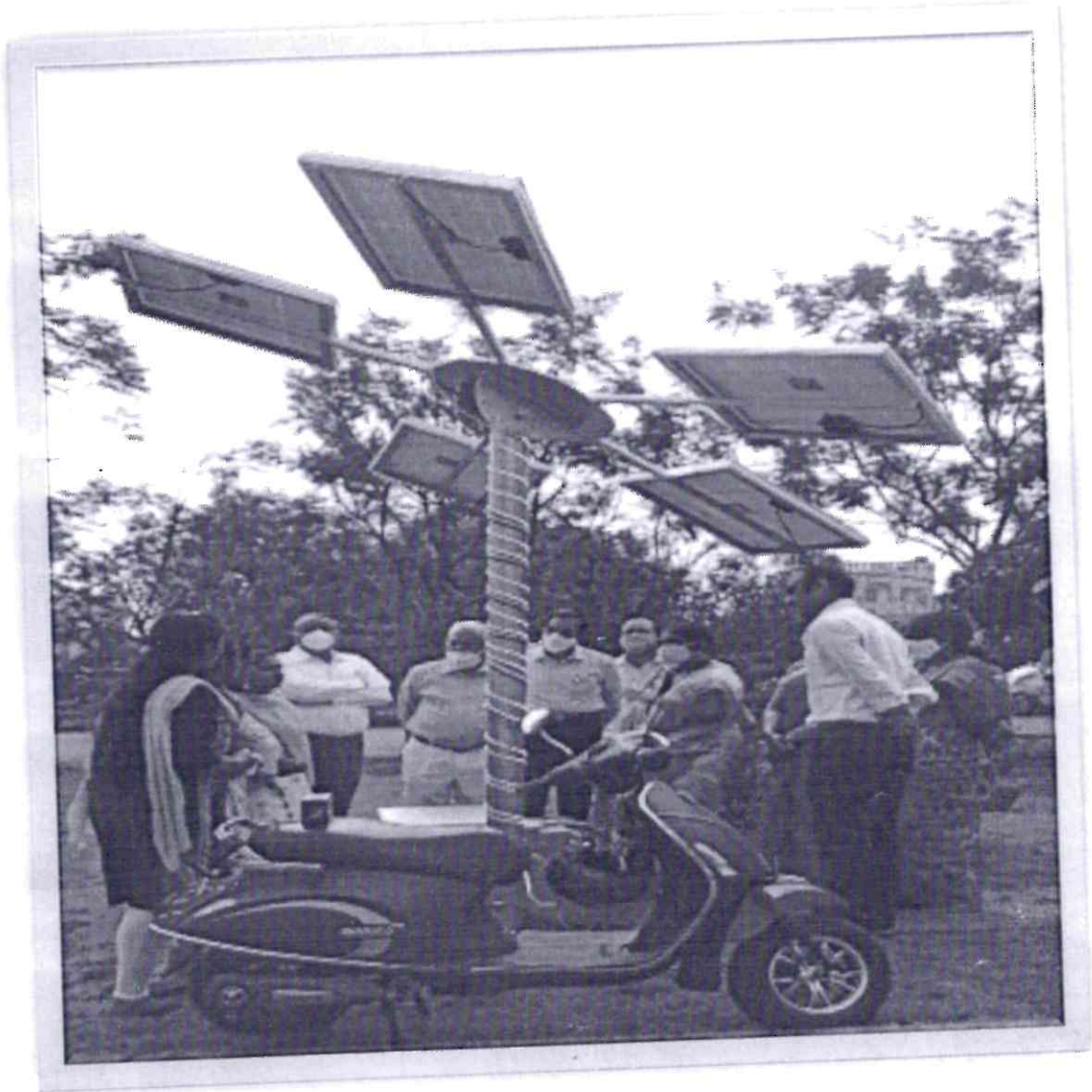
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Details of Innovative Projects:

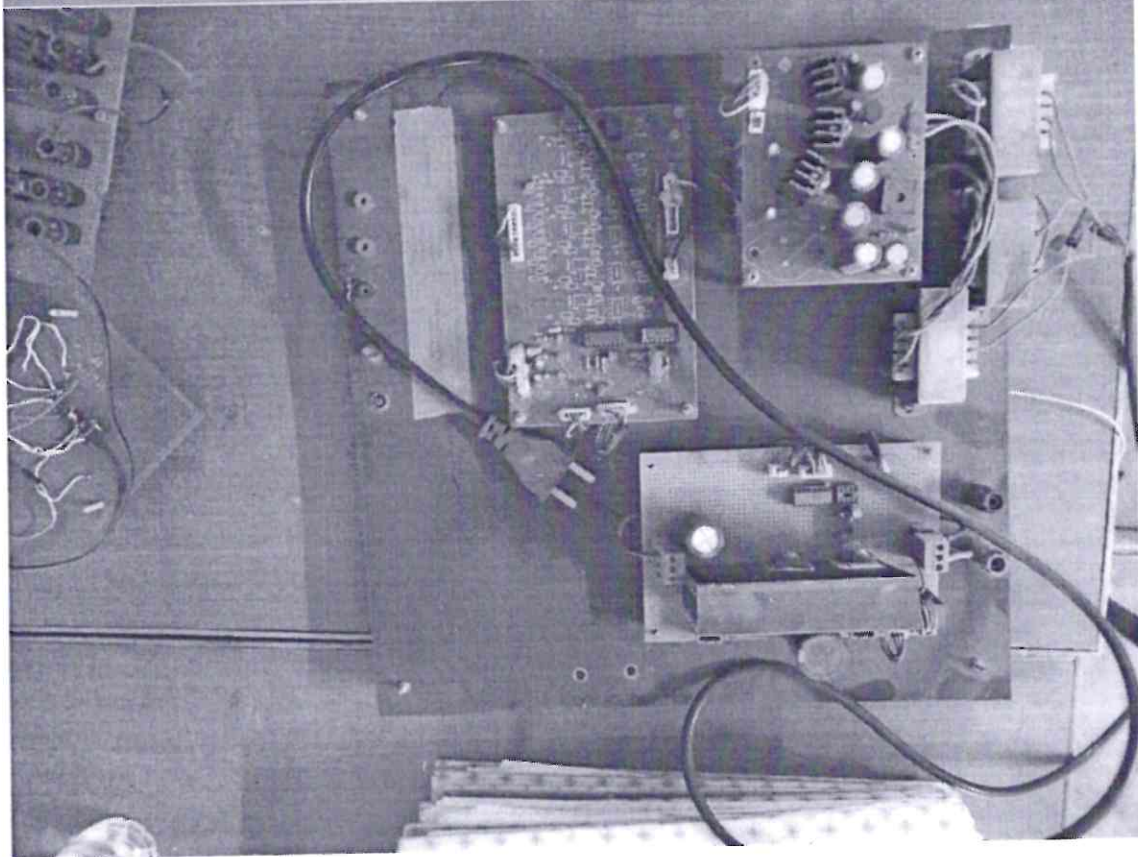
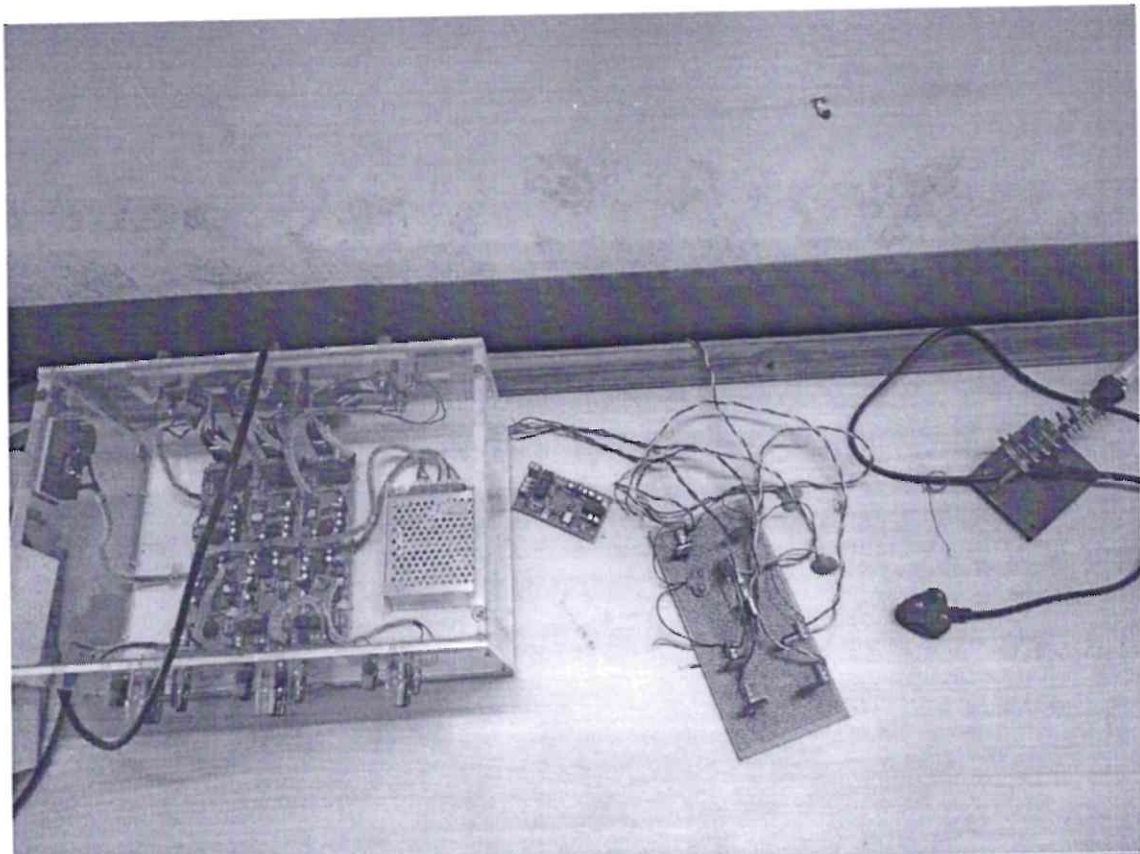
S. NO.	FACULTY NAME	YEAR/ SEM	COURSE NAME	INNOVATION USED	METHODOLOGY ADOPTED	OUTCOME
1	Mr M Krishna	2022-23 IV-II	Project work	Developed Solar Powered Vehicle	Hardware implementation of Solar Electric Vehicle as a part of final year project	Students able to understand the design and implementation of electric vehicle
2	Mr M Krishna	2021-22 IV-II	Project work	Developed Hybrid Electric Vehicle	Hardware implementation of Hybrid Electric Vehicle as a part of final year project	Students able to understand the design and implementation of electric vehicle
3	M.Krishna Dr A.Hema Chandra	2020-21 III-II	Hardware Model	Solar tree for electric vehicle charging	Hardware implementation of power electronic converters for renewable power applications	Students able to understand the design methods for power electronic converters.
4	Dr.P.Devendra Y.Ramu	2019-20 III-II	Power electronics Lab	Design of DC-DC power converter	Hardware implementation of DC-DC power converters for renewable power applications	Students able to understand the design methods for DC-DC power converters for different configurations.
5	Dr P Devendra	2018-19 IV-II	Project work	IOT Based Energy Monitoring System	Hardware implementation of Energy Monitoring System	Students are able to develop the smart meters for monitoring of energy
6	Mr M Krishna	2018-19 IV-II	Project work	Design of MPPT charge controller for Off-Grid solar PV system.	Developed hardware model of charge controller for 300 W solar PV system	Students are able to develop the hardware model for implementing effective charge controller using MPPT techniques.

Heena
HEAD OF THE DEPARTMENT
V.P. College of Engineering
Madhura
VISAKHAPATNAM



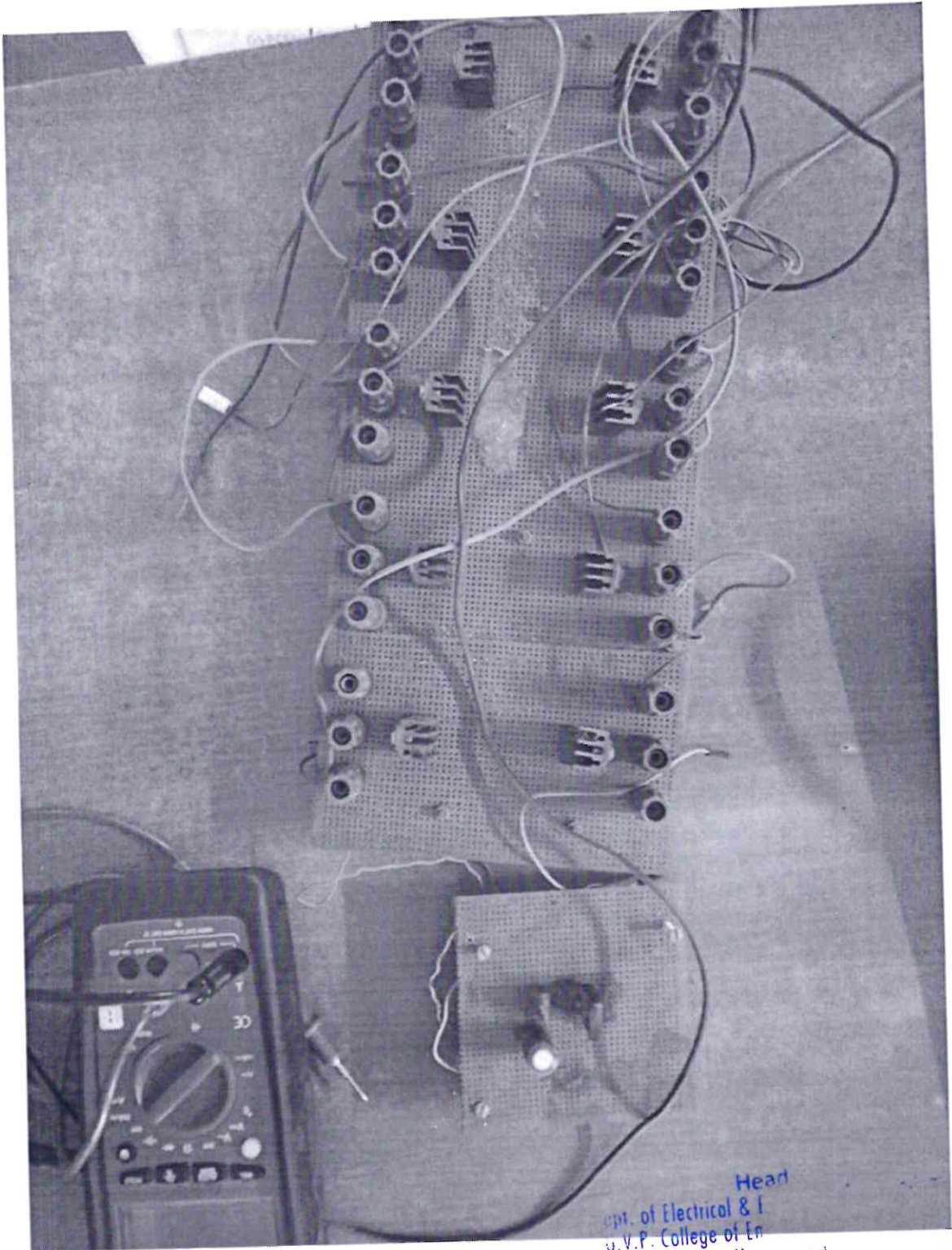
R. V. S. L. K.

Head
Dept. of Electrical & Electronics Engin.
V.P. College of Engineering
Madhurawada
VISA KHAPATNAM-5



Power Converter

NVS Head IC
Dept. of Electrical & Electronic
College of Engineering
Madh
VISA# 4AF



Dept. of Electrical & I
S.V.P. College of En
Madhu
Power Conversion
SANKHARPA RVS



Hybrid Electric Vehicle

RVS LIC

Head
Dept. of Electrical &
G.V.P. College of
Madr
VISA KHAP

Timestamp	Email Address	Score	Name	Email	Roll No. (As Per Aim of the Experiment)	Under different excitations (i.e. Under, normal and over excitation) of synchronous motor and alternator) a) Armature Current b) Armature P.F. c) Active Power d) Reactive Power	Effect of change in load for the given excitation on the following Parameters (in case of synchronous motor and alternator) a) Armature Current b) Armature P.F. c) Active Power d) Reactive Power	Plot the excitation characteristics of synchronous motor for different loading condition and comment on characteristics	Result	
10/9/2020 15:36:50	sandhyakalepu019@gmail.com		Sandhya	Sandhyakalepu019@gmail.com	19jg5a0204	To plot the v and inverted v curves of synchronous motor	a)armature current decreases then increased. With the given excitation a synchronous draws a unity pf current. b)synchronous motor is under excited,it has a lagging power factor.As the excitation is increased, the power factor improves till it becomes unity at normal excitation. c)active power less in lag more in lead. d)reactive power absorbed lag reactive power delivered lead	a)armature current becomes less and less leading and then becomes more and more lagging. b)the power factor angle also changes with the change in load . c)active power less in lag more in lead. d)reactive power absorbed lag reactive power delivered lead	https://drive.google.com/open?id=1v1k9b97mZapq0IU_A7YosGfR8rWdJCC	Hence v and inverted v curves of synchronous motor was determined
10/9/2020 20:30:52	damarasinghkeerthi555@gmail.com		DAMARASINGH	damarasinghkeerthi555@gmail.com	19JG5A0203	To plot the 'V' and inverted 'V' curves of synchronous motor.	An over excited synchronous motor operates at leading power factor, under excited synchronous motor operates at lagging power factor and normal excited synchronous motor operates at unity power factor. The magnitude of Armature current varies with excitation. The current has large values both for low and high values of excitation (though it is lagging for low excitation and leading for higher excitation). In between it has minimum value corresponding to a certain excitation. The alternator will always absorb the Reactive power to meet its flux requirements to generate the real power. An over excited synchronous machine will absorb Active power where as an under excited synchronous machine will absorb Reactive power.	a) 4.18 , b)0.88, c) 153.384W, d) 156.04W.	https://drive.google.com/open?id=19SQzHqQICF6kM1QIQy0UW3HfOmUWYQ3	Hence, plotted the graph of 'V' and inverted 'V' curves of synchronous motor has been obtained
10/12/2020 16:45:58	19jg5a0207.anusha@gvpcew.ac.in		Koyya Anusha De	19jg5a0207.anusha@gvpcew.ac.in	19JG5A0207	To plot the v and inverted v curves of a synchronous motor.	Active power (less in lag and more in lead)	Reactive power	https://drive.google.com/open?id=1JQUJIRJxa963-p3lI2-SytkauYuu0u	Hence, v and inverted v curves of a synchronous motor characteristics was plotted.
10/12/2020 17:01:41	19jg5a0218.satyasri@gvpcew.ac.in		V. Satya sri	19jg5a0218.satyasri@gvpcew.ac.in	19JG5A0218	To plot the v and inverted v curves of synchronous motor	Armature current	Armature P.F	https://drive.google.com/open?id=1vVVTYY-dwUuZB0B15EV8bqTXEAsiGag	Hence, the v and inverted v curves of a synchronous motor were plotted.

Timestamp	Email Address	Score Name	Email	Roll No. (As Per Aim of the Experiment)	Following Parameters under different excitations (i.e. Under, normal and Over excitation in case of synchronous motor and alternator) a) Armature Current b) Armature P.F. c) Active Power d) Reactive Power	Effect of change in load for the given excitation on the following Parameters (in case of synchronous motor and alternator) a) Armature Current b) Armature P.F. c) Active Power d) Reactive Power	Plot the excitation characteristics of synchronous motor for different loading condition and comment on characteristics	Result	
10/4/2020 14:41:20	teku8455@gmail.com	Teku Rajeswari	teku8455@gmail.com	19JG5A0217	V and Inverted V curves of a 3 phase Synchronous Motor	At Under Excitation, Armature Current Increases & p.f decreases, Active Power decreases & Reactive power is absorbed... At Normal Excitation, Armature Current is minimum and p.f operates at unity, Active Power remain and Reactive Power will be zero... At Over Excitation, Armature Current decreases & p.f increases, Active Power increases and Reactive Power will be delivered to the grid	When the load increases the real power/reactive power will drawn from Alternator is Armature Increases & Operates at Leading pf, Active Power increases & Reactive power is absorbed whereas in Synchronous Motor as load increases Armature Current increase s and operates at lagging pf, Active Power increases and Reactive Power will be absorbed	https://drive.google.com/open?id=1m13rzMLU0yxbVGG9chmfcerS8FXiEdvC	Hence, V and inverted V curves of a 3 phase Synchronous Motor was plotted.
10/4/2020 18:13:16	19jg5a0222.monika@gvpcew.ac.in	K.monika	19jg5a0222.monika@gvpcew.ac.in	19JG5A0222	To plot v and inverted v curves of synchronous motor	D	B	https://drive.google.com/open?id=1cFP3-C-hleNaOZY0N5qUjovs2Qhfcx-1e	The v and inverted v curves of synchronous motor is drawn Hence, v curve is observed that the armature current as late values both for low and high values of excitation inverted v Curves is observe that power factor is lagging when the motor is under excitation and pf is unity.
10/5/2020 11:09:28	19jg5a0202.nalini@gvpcew.ac.in	Chodapalli nalini	19jg5a0202.nalini@gvpcew.ac.in	19JG5A0202	To plot the v and inverted v curves of synchronous motor	Power factor improve and approaches unity. armature current also increase	Power draw by the large reactive Components and power factor has very low	https://drive.google.com/open?id=1cJa0Ew_QUElphMlDDdeKTcQhZZSUZha	Hence, v curve is observed that the armature current as late values both for low and high values of excitation inverted v Curves is observe that power factor is lagging when the motor is under excitation and pf is unity.
10/5/2020 13:11:53	baddiribhavani@gmail.com	Bhavani B	Baddiribhavani@gmail.com	19JG5A0221	To plot the v and inverted v curves of synchronous motor	Armature current=1.18 amps Armature pf=1 Active power =519.2 watts Reactive power=0 at (p.f 1)	Armature current =0.36 amps Armature p.f=0.79 Active power =125.13 watts Reactive power=97.11 watts	https://drive.google.com/open?id=1XiKlmDghJfA8IDqw8vXnNQMT6R0Cmrf	Hence plot the v and inverted v curves of synchronous motor is successfully done
10/5/2020 13:30:11	18jg1a0223.prakeerthi@gvpcew.ac.in	prakeerthi priya	18jg1a0223.prakeerthi@gvpcew.ac.in	18JG1A0223	No load blocked rotor test	active power	Armature current	https://drive.google.com/open?id=1RdKghrxFa9Z9caKNI5sSwUXN0A1QC	Hence voltage regulation is verified by synchronous impedance method



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Department of Information Technology

INNOVATION PROJECTS

(IT)

SNO	YEAR	BATCH NO	ROLL NO	PROJECT TITLE
1	2022-23	B-10	19JG1A1220	Supply Chain Monitoring and Authentication using Blockchain
			20JG5A1203	
			19JG1A1254	
			20JG5A1207	
2	2022-23	B-4	19JG1A1210	Stock Time Series Data Prediction Using Machine Learning Techniques
			19JG1A1234	
			19JG1A1229	
			20JG5A1202	
3	2022-23	B-6	19JG1A1245	Leaf Disease Detection System Through Deep Learning Using CNN Model
			19JG1A1209	
			19JG1A1217	
			19JG1A1203	
4	2022-23	B-7	19JG1A1218	Interactive System for Gender Classification
			19JG1A1228	
			20JG5A1204	
			19JG1A1219	
5	2022-23	B-8	19JG1A1253	Fashion Clothes Generation System using Deep Convolutional GAN
			19JG1A1232	
			19JG1A1224	
			19JG1A1205	
6	2022-23	B-11	19JG1A1239	Machine Learning Pipeline Model for Prediction of Stability in Smart Grid
			19JG1A1246	
			20JG5A1209	
			19JG1A1226	
7	2022-23	B-12	19JG1A1249	Detection of Kidney Disease using Machine Learning
			19JG1A1241	
			19JG1A1250	
			19JG1A1252	



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SNO	YEAR	BATCH NO	ROLL NO	PROJECT TITLE
8	2021-22	B-4	18JG1A1202	Driver Drowsiness Detection using Long Short Term Memory
			18JG1A1220	
			18JG1A1235	
			18JG1A1214	
9	2019-20	B-7	16JG1A1207	IOT based Smart Management of Poultry Farm
			16JG1A1222	
			16JG1A1224	
			16JG1A1216	
10	2019-20	B-1	16JG1A1240	Block Chain And IOT Based Data Analytics For Fine-Grained Transportation Insurance
			16JG1A1253	
			16JG1A1244	
			16JG1A1218	
11	2019-20	B-2	16JG1A1225	Object detection using Bluetooth controlled car
			16JG1A1205	
			16JG1A1217	
			16JG1A1232	
12	2019-20	B-4	16JG1A1229	IOT based Smart Tank
			16JG1A1233	
			16JG1A1252	
			16JG1A1203	
13	2019-20	B-5	16JG1A1236	Water Quality Monitoring System using IOT
			16JG1A1214	
			16JG1A1250	
			16JG1A1226	


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A Node-Level Security Algorithm for Cloud Assisted-IoT

2022
8444

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Abstract

The Internet of Things, which is the fastest-growing technology, will also lead to advancements in medical electronics. The Internet of Things is all on discovering a purpose for every object. The cloud-assisted internet of things (IoT) provides a possible solution to data growth problems for limited-capability individual objects. Nevertheless, as a result of the cloud's influence, IoT now faces novel security Challenges for data reciprocity between two parties that are not resolved by traditional means. This work conducts a systematic investigation using a secure cloud-assisted IoT data management approach to maintain data confidentiality when collecting, storing, and accessing IoT data using the cloud, while accounting for the escalating number of cloud users. In the proposed system, a node-level security mechanism is utilized. Consequently, a secure IoT utilizing our technology could withstand the majority of threats to data confidentiality posed by both insiders and outsiders of the IoT. Create a heartbeat monitoring system utilizing a heartbeat sensor and a Raspberry Pi. Providing security for the patient's health data at the node level and preventing unauthorized users from attacking it. Security is achieved using several security methods for IoT devices with smaller key sizes, and transmission capacity reserve. The patient's protected data is then uploaded to a cloud platform, where doctors and other applications, such as mobile apps, can now access it.

Keywords— Encryption, Decryption, IoT, Cloud, Node, Security, Raspberry Pi.

1 INTRODUCTION

The heart rate sensor [1] monitors and converts a person's heartbeat into electrical impulses and pulses. Typically, modern heart rate monitors record heart impulses using one of two methods (electrical and optical). Both sorts of signals provide access to the same core heart rate data.

The Internet of Things (IoT) [2] is a network of "things" equipped with software, electronics, a network, and sensors to collect and share data. The Internet of Things (IoT) capitalizes on the interconnection of humans to enable us to interact, contribute, and collaborate with the surrounding environment. IoT can be utilized for enhanced resource utilization, reduced human effort, time savings, the development of artificial intelligence, and enhanced security. Connectivity is one of the Internet of Things' most important properties. Connecting numerous devices to the IoT platform, analyzing the obtained data to produce business information, and integrating multiple models to enhance the user experience are all essential components of IoT. By preventing cyberattacks,

security [3] in IoT systems facilitates the secure, trustworthy, and accessible interchange of data. The categorization of the numerous threats associated with each level of the overall IoT system architecture is therefore the starting point for attack prevention, trust management, and security in the IoT universe.

Data security is the maintenance of firm data and the prevention of data loss resulting from illegal access. This includes protecting your data from attacks that can encrypt or delete data, such as malware, as well as attacks that can modify or distort your data. Malware, phishing, man-in-the-middle, and denial-of-service attacks, among others, are feasible. In 2021, the reported number of data breaches grew by 68 percent, reaching an all-time high. According to the Identity Theft Resource Center's 2021 Data Breach Report, there were 1,862 data breaches in 2018, surpassing both 1,108 in 2020 and the previous high of 1,506 in 2017. Data breaches may have short-term, long-term, and catastrophic repercussions. They could result in the theft of sensitive and important data, such as medical information. They are capable of disabling phone and computer networks,





Security Attacks DoS / DDoS attack Detection in Networks

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Abstract

There exists numerous attacks have an impact on our day-to-day activities, but with the accelerating advancement of computer and communication technology, the harm caused by DDoS attacks is becoming more and more severe. DDoS attacks have grown to be a serious threat to today's computer networks. DDoS attacks are a highly important issue for social media and internet communication networks. In today's information technology (IT) digital age, network security is a subject generating a lot of interest. The intruders typically succeed in their mission by sending a stream of packets to victim that exhausts its network bandwidth or connectivity, by finding and exploiting any vulnerability. This results in all cases in a denial of access to the victim's regular clients. A DDoS attack, also known as a denial of service attack, involves flooding the victim's computer with traffic from many attack/hacker computers. There are several different types of DDoS assaults, including ICMP, UDP, and Common TCP flood attacks. It is crucial to promptly identify and stop these attacks. In this study, we suggest ways to identify and stop DDoS attacks. One of the methods most frequently used to identify DDoS assaults is machine learning. The system determines if the incoming packets are legitimate or malicious during the detection phase. In order to compare the system's performance, various classification algorithms are used. The outcomes demonstrate that the ML trained Model performs at its best when the Decision tree classifier ID3 is used. The accuracy is 99% achieved.

Keywords: Wireshark, Dataset, DDoS attack, WinPCaP

1 INTRODUCTION

Security risks can be divided into three categories, including unlawful denial of service, failure of authenticity, and confidentiality breach. To describe distinct types of DoS, many names for embranchment have been developed. One encapsulation word, DDoS, suggests that the attack is coming from numerous unrelated sources. The subclass of DoS attacks is DDoS attack. Categories of DDoS attack are

A. ICMP (Ping) Flood

Here assailant utilises ICMP echo request packets to send service requests to the legitimate user. The assault can use both incoming and outgoing bandwidth, and the servers will try to respond to packets, slowing down the entire system.

B. SYN Flood

Any device connected to the system over the internet is a potential target. In a SYN flood, the sender repeatedly sends SYN requests, but it ignores the host's SYN-ACK and sends SYN requests from a fake IP address. Denial of service occurs because the host waits until the acknowledgement is given.

C. Ping of Death

It sends the targeted source a packet which is bigger than the allowable size into the system. Maximum length of packet of an IP packet is 65535 bytes. This attack can overflow memory buffer which is allocated of packet.

D. HTTP Flood

This attack is carried out through an HTTP request. The attacker sends the end user a request to carry out this attack, and the attack is carried out after the request is sent via http.

Connecting across the globe has reduced the distance between places and opened up our systems for attacks from malicious attackers. We must protect our data from these intruders. Denial of service (DoS) attacks bombard the victim's computer with traffic coming from the hacker's system. The attack causes the victim's PC to crash. The goal of the assault is to overwhelm the victim's server, limit its functionality, and eventually cause the machine to crash. Online attacks include DoS attacks. A website that has been attacked becomes utterly unusable for its visitors. The goal website's server receives heavy traffic from the hacker's system in an effort to shut down its services



Ensemble of Handcrafted and Deep Learning Model for Histopathological Image Classification

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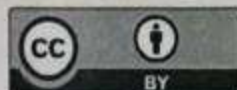
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Abstract: Histopathology is the investigation of tissues to identify the symptom of abnormality. The histopathological procedure comprises gathering samples of cells/tissues, setting them on the microscopic slides, and staining them. The investigation of the histopathological image is a problematic and laborious process that necessitates the expert's knowledge. At the same time, deep learning (DL) techniques are able to derive features, extract data, and learn advanced abstract data representation. With this view, this paper presents an ensemble of handcrafted with deep learning enabled histopathological image classification (EHCDL-HIC) model. The proposed EHCDL-HIC technique initially performs Weiner filtering based noise removal technique. Once the images get smoothened, an ensemble of deep features and local binary pattern (LBP) features are extracted. For the classification process, the bidirectional gated recurrent unit (BGRU) model can be employed. At the final stage, the bacterial foraging optimization (BFO) algorithm is utilized for optimal hyperparameter tuning process which leads to improved classification performance, shows the novelty of the work. For validating the enhanced execution of the proposed EHCDL-HIC method, a set of simulations is performed. The experimentation outcomes highlighted the betterment of the EHCDL-HIC approach over the existing techniques with maximum accuracy of 94.78%. Therefore, the EHCDL-HIC model can be applied as an effective approach for histopathological image classification.



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A Study of the After-Effects of COVID-19 with an Emphasis on Potential Cardio-Thoracic Diseases through a Machine Learning Outlook

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Abstract- The COVID-19 pandemic has shaken the world rigorously. As of now, people have learned to live with it. In this situation, after-effects of the pandemic have begun to surface rapidly. From recent studies and research works, it has been noted that after being affected by COVID-19, the patient may suffer with chest diseases, heart problems, epilepsy, or neural problems. This paper focuses on the above said perception to study and deduce the after-effects of the pandemic on the Cardio-Thoracic systems and the diseases that might surface in the future. Analysis of the data from 100+ patients from a hospital in Visakhapatnam, Andhra Pradesh, India, suggests that some patients might suffer cardiovascular problems and/or chest problems in their near future. Patients who have been exposed to the pandemic did suffer heart damage, and such risk is greater for those who already possess respiratory and cardiac problems. According to the results, those over the age of 35 are more likely to be affected by COVID-19 and are most likely to face cardio-related complications such as clots, cardiac arrest, and admission to intensive care unit (ICU) or in the worst case, death. For studying this hypothesis, the Machine Learning algorithms of K-Nearest Neighbour and Naïve Bayes have been identified for utilization in the future works of the above-said data.

Keywords- COVID-19, After-effects of COVID-19, Machine Learning, Naïve Bayes, KNN

1. INTRODUCTION

COVID-19 is caused by a virus called SARS-CoV-2. It is part of the coronavirus family, which includes common viruses that cause a variety of diseases from head/chest colds to more severe but rare diseases like severe acute respiratory syndrome (SARS) and the Middle East respiratory syndrome (MERS) [4]. Like many other respiratory viruses, coronavirus spreads quickly through droplets that project out of the patient's mouth or nose when they breathe, cough, sneeze, or speak.

As genetic changes to the virus take place, the SARS-CoV-2 virus begins to form genetic lineages. Just as a family has a family tree, the SARS-CoV-2 virus can be similarly mapped out in different ways. The branches of that tree have different attributes that depict how fast the virus spreads, or the severity of illness it causes, or the effectiveness of treatments for it. Such viruses with these changes are called "variants". They are still SARS-CoV-2 but may

Enhancement OLSR Routing Protocol using Particle Swarm Optimization (PSO) and Genetic Algorithm (GA) in MANETS

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Abstract

A Mobile Ad-hoc Network (MANET) is a collection of moving nodes that communicate and collaborate without relying on a pre-existing infrastructure. In this type of network, nodes can freely move in any direction. Routing in this sort of network has always been problematic because of the mobility of nodes. Most existing protocols use simple routing algorithms and criteria, while another important criterion is path selection. The existing protocols should be optimized to resolve these deficiencies. Particle Swarm Optimization (PSO) is an influenced method as it resembles the social behavior of a flock of birds. Genetic algorithms (GA) are search algorithms that use natural selection and genetic principles. This paper applies these optimization models to the OLSR routing protocol and compares their performances across different metrics and varying node sizes. The comparison is carried out with the help of the simulation tool NS2, NAM (Network Animator), and xgraph, which is used to create the graphs from the trace files.

Keywords: MANET, OLSR, Particle Swarm Optimization, Multipoint Relay, Genetic Algorithm.

1. INTRODUCTION

They are very self-configured and have a collection of wirelessly connected mobile nodes, Self-healing networks despite the lack of stable infrastructure—nodes in a network serve as hosts and routers, transmitting data from one node to other. The node wants to connect with other nodes in Manet; each node uses a wireless interface. These networks are dispersed and may function anywhere without the assistance of pre-existing infra-structures such as base stations or access points.

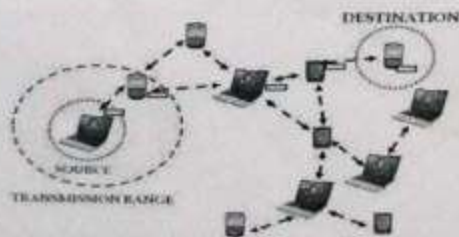


Fig 1: Network architecture of MANETS

Types of Routing Protocol

- i. **Proactive Routing Protocol:** It is also termed the "Table-based protocol." Each mobile node has its routing table, which comprises routes to any potential destination mobile nodes. Because the architecture of a manet is constantly changing, the routes associated with network nodes are frequently updated. This drawback is ineffective in large networks because the routing table entries become crucial since they must provide the root data to all possible nodes, for example, the "Destination Sequenced Distance Vector (DSDV)" protocol, "Global State Routing (GSR)" protocol.
- ii. **Reactive Routing Protocol:** It is also termed the "On-demand routing protocol." During this routing protocol, the route is found only when necessary. "Route Discovery and Route management" are the two key steps. The root-finding approach involves broadcasting the mobile network with root request packets. Each component in this Protocol contains the information of the nodes to its left and right. It may also ensure the journey of the data, route creation, and deletion of the routes if the network is partitioned. Examples included are "Dynamic Source Routing Protocol (DSR)" and "Ad-Hoc On-Demand Vector Routing protocol (AODV)."
- iii. **Hybrid routing protocol:** This Protocol combines the benefits of reactive and proactive routing techniques. As per the source and destination mobile nodes' zone and position, these protocols are adaptive. ZRP (Zone Routing Protocol) is one of the most extensively utilized hybrid routing technologies. The whole network is divided into numerous zones, and the locations of the source node and destination mobile nodes are determined. When the "sender and receiver, mobile nodes are in the same area," proactive routing is used to transfer packets. Reactive routing forwards the packet if the "sender and receiver mobile nodes are in different zones." Examples: Enhanced IGRP (EIGRP), Zone Routing Protocol (ZRP).



Identification Of Parkinson's Disease By Way Of Machine Learning Algorithms

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1. ABSTRACT

Parkinson's Infection (PI) is a persevering, contemptible issue which prompts an extent of motor and scholarly signs. Parkinson's Disease determination is a troublesome endeavor since its aftereffects are essentially equivalent to various ailments like common development and principal tremor. This errand hopes to robotize the Parkinson's Infection observing cycle using Deep learning, Recursive Neural Networks (RNN) and Convolutional Neural Networks (CNN), to isolate strong and Parkinson's Disease patients. Other than that, since different datasets may get different pieces of this ailment, this adventure hopes to explore which Parkinson's Infection assessment is more fruitful in the isolation collaboration by inspecting assorted imaging and advancement datasets (remarkably 3D square and bending pentagon datasets). In consideration, this undertaking evaluates which of the information gathered, for example the informational collection, is more effective in distinguishing Parkinson's Infection.


Keywords: Parkinson's Infection, Convolutional Neural Networks, Deep learning, Pentagon datasets.



Biomedical Data Analysis and Processing Using Explainable (XAI) and Responsive Artificial Intelligence (RAI) pp 1–15

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Optimal Boosting Label Weighting Extreme Learning Machine for Mental Disorder Prediction and Classification

[E. Laxmi Lydia](#) , [C. S. S. Anupama](#) & [N. Sharmili](#)

Chapter | [First Online: 10 April 2022](#)

269 Accesses

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Abstract

Explainable artificial intelligence (XAI) becomes a hot research topic in the domain of biomedical and healthcare applications. Owing to the benefits of handling massive and complicated data, XAI concept finds useful in several applications, particularly health care. With the developments of machine learning (ML) and XAI, healthcare service quality can be considerably improved. This article designs an optimal boosting label weighting extreme learning machine for mental disorder prediction and classification (OBWELM-MDC) technique. The goal of the OBWELM-MDC technique is to determine the different levels of DAS. In addition, the OBWELM-MDC



[Biomedical Data Analysis and Processing Using Explainable \(XAI\) and Responsive Artificial Intelligence \(RAI\)](#) pp 17–32 | [Cite as](#)

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Modeling of Explainable Artificial Intelligence with Correlation-Based Feature Selection Approach for Biomedical Data Analysis

[E. Laxmi Lydia](#)  [C. S. S. Anupama](#) & [N. Sharmili](#)

Chapter | [First Online: 10 April 2022](#)

317 Accesses | 1 Citations

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Abstract

In recent days, biomedical data analysis became a challenging problem due to the massive increase in the quantity of healthcare data. The emerging explainable artificial intelligence (XAI) tools can be applied for the effective examination of biomedical data and perform classification process. Besides, the high dimensionality of the medical data requires proper selection of features to reduce the complexity level. This paper presents an explainable artificial intelligence with correlation-based feature selection for biomedical data analysis (XAICFS-BDA) technique. The XAICFS-BDA technique aims to choose optimal features and then classifies data for biomedical decision making. In addition, the XAICFS-BDA technique performs the optimal selection of features using the correlation-based feature selection (CFS) technique. Besides, the classification of biomedical data is carried out by the use of fuzzy k-nearest neighbor classifier (FKNN), and the parameter tuning of this model is performed utilizing black widow optimization (BWO) approach. The experimental result analysis of the XAICFS-BDA technique is carried out using distinct benchmark biomedical dataset. Extensive comparative analysis pointed out the better performance of the XAICFS-BDA technique over the recent techniques.



An Optimized Ensemble XGBoost Regression Model for Crop Yield Prediction Using Correlation-based Feature Selection Technique

K. Purushotam Naidu^{1*}, Dr.P. Krishna Subba Rao², Dr. MHM Krishna Prasad³

Abstract

The world's population is constantly growing, necessitating adequate crop production. Crop prediction yields should be healthy in order to assist farmers in making appropriate selling and storage decisions. Such crop yield estimations would also aid enterprises focused on crop farming and production in the growth of logistics. Agricultural production forecasting has a direct effect on regional and global industries, as well as a key role in food control and safety. The Machine Learning technique and parameters employed in a data set are mostly responsible for accurate yield prediction. In this work winter wheat yield data is collected that contains around 26 features, after applying data pre-processing, We clean the data, then pick significant features and eliminate unnecessary and redundant features using a correlation-based feature selection technique, which improves performance of the model. In this research work an ensemble Optimized XGBoost Regression was proposed to efficient crop yield prediction. The GridSearchCV technique with 5 fold cross validation was used to tuning hyperparameters of the model. We compared our proposed model to a number of Machine Learning models, including the Random Forest Regression, Gradient Boosting Tree Regression, Linear Regression, Polynomial Regression, KNN, and SVR. Among which our model was given RMSE is 4.20, MAE is 2.79 and R² Value is 0.9. Comparing proposed model to other machine learning algorithms, the results shows that our model is more effective to predicting crop yield.

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Key Words: Machine Learning, Preprocessing, Feature Selection, Yield Prediction, Random Forest, KNN, SVR.

DOI Number: 10.14704/nq.2022.20.6.NQ22527

NeuroQuantology 2022; 20(6): 5206-5221

Introduction and Related Work

Wheat [1—5] is necessary food in the world wide which is grown in higher land than any other food crop and it is the second most produced cereal after maize [10]. In agriculture sector agro economists needs simple and easy techniques to yield predictions. Crop yield predictions play an important role to acquire information about crop that should helps agricultural departments to take wisely and better decisions. Crop yield prediction depends on many input parameters [6-9] such as temperature, precipitation, area and humidity etc. Good results in crop yield obtained by choosing proper inputs and Machine Learning algorithm.

Globalization has allowed agriculture production to

grow much faster than in the past. And also, the yield of agriculture has been affected by many factors like temperature, precipitation, cloud cover, humidity, dew point, wind speed, NDVI. On the other side, plant growth canbe improved by considering four primary factors like light, water, temperature and nutrients. To decide which crop to cultivate in their field, farmers usually rely on their experience.

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Short Term Load Forecasting Using Artificial Neural Networks

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Abstract- Short term load forecasting is required for power system planning, operation and control. It is used by utilities, system operators, generators, power marketers. In this project, load forecasting has been done using ANN (Artificial Neural Network). As load profile is different for weekdays and weekends, so for better forecasting performance, training of neural network has been done separately for weekdays and weekends. Accordingly forecasting is done separately for weekdays and weekends.

Artificial Neural Network (ANN) Method is applied to forecast the short-term load for a given data. The load has two distinct patterns: weekday and weekend-day patterns. The weekend-day pattern includes Saturday and Sunday loads. Inputs to the ANN are past load data and the output of the ANN is the load forecast for a given data. The network with one or two hidden layers is tested with various combinations of neurons, and the results are compared in terms of forecasting error. The neural network, when grouped into different load patterns, gives good load forecast.

Hourly data of maximum and minimum temperatures, humidity, day the week, week of the month and load of ISO NEW ENGLAND form the years 1999,2002 and 2003 has been used for training and testing the Neural Network. Simulation results obtained have shown the comparison of actual and forecasted load data. Performance of forecaster is calculated using MAPE and AC.

Keywords- Artificial Neural Networks (ANN), Short Term Load Forecasting (STLF), Mean Absolute Percentage Error (MAPE), Average Prediction Variance (AC).

Article

New Class of Power Converter for Performing the Multiple Operations in a Single Converter: Universal Power Converter

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Abstract: Universal power converters (UPCs) have aroused significant attention in performing multiple operations in a single power converter. Furthermore, they contribute to economic operation and improved system performance. In this work, a new configuration of the universal power converter (UPC) was proposed by using a simple switching arrangement. It can perform different modes of operations, such as AC-DC, DC-DC, DC-AC, AC-AC, and cyclo-converter operations. In DC-DC conversion, the proposed configuration can perform buck mode, boost mode, and buck-boost mode of operations. Moreover, in DC-AC conversion, it gives better total harmonic distortion (THD). The effectiveness of the proposed configuration was verified by an extensive simulation, using MATLAB/Simulink environment. A low-power prototype circuit was designed to test the viability of the proposed circuit configuration and validated with simulation results.

Keywords: DC-DC converter; DC-AC converter; AC-AC converter; cyclo-converter; universal converter

1. Introduction

Universal power converters (UPCs) have many advantages over conventional solutions [1–4] employing multiple single converters; the advantages include lower-cost characteristics, compact size, high power density, etc. This class of power converters is called “universal” because the inputs and outputs of the converters can be DC or AC. Therefore, they can be employed in various applications, including, but not limited to, photovoltaic (PV) power generation, battery–utility interfaces, and nanogrids. Therefore, UPCs are a suitable fit for nanogrids, electric vehicles (EVs), and photovoltaic (PV) applications [5–7].

Power electronic converters are classified into two types: non-isolated and isolated. In an isolated converter, the multi-winding transformer obtains high voltage gain and isolation between output and input ports. However, it has some drawbacks: more voltage stress, losses in the converter, converter size, and less converter efficiency [8–10]. Therefore, non-isolated converters have emerged in this field. There are several converter configurations in the category of non-isolated converters. Boost capacitor and passive clamp circuit-based DC-DC converters are suggested in Reference [11]. They improve the voltage gain and reduce voltage-stress spikes. However, they have a higher part count compared to the high-gain voltage converters, and where the coupled inductor size is larger than it is in the ordinary inductor. Similarly, a coupled-inductor and voltage-multiplier cell-based boost hybrid converter is proposed for high-gain applications [12]. A converter based on a switched inductor and capacitor hybrid is suggested in Reference [13] for improving converter performance. This converter operation is based on energizing the inductors in

RESEARCH ARTICLE

Design and Implementation of Single-Input-Multi-Output DC-DC Converter Topology for Auxiliary Power Modules of Electric Vehicle

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ABSTRACT A compact DC-DC converter is required as an auxiliary power module in Electric Vehicles (EVs) to power the onboard electric motor and other auxiliaries. Most of the existing multi-port converters have limitations on duty ratio, charging currents of the inductor ($i_{L1} > i_{L2}$ or $i_{L1} < i_{L2}$), output voltages ($V_{O1} > V_{O2}$ or $V_{O1} < V_{O2}$), and the issue of cross-regulation during load variation. This paper presents a multi-port DC-DC converter with Single-Input Multiple-Output (SIMO) to circumvent all these limitations. The proposed topology generates independent outputs without affecting the other loads during the operation. It is observed that cross-regulation is effectively eliminated while controlling the loads. The control of the converter is simple without any duty ratio and inductor current charging constraints. The validity of the proposed converter has been verified by using a prototype with a 100W rating and delivers two output voltages of 24V and 14.4V at duty ratios of 50% and 30% with an input voltage of 48V. It can be extended to multiple outputs. The simulation and experimental results are analyzed to prove the effectiveness of this auxiliary power module for EV applications.

INDEX TERMS Auxiliary power module, cross-regulation, DC-DC converter, electric vehicle, single-input-dual-output converter.

NOMENCLATURE

V_{DC}	Input voltage.
I_{DC}	Input current.
D_1, D_2	Duty ratio of switches.
S_1, S_2	Switches.
D_{1D}, D_{2D}	Diodes.
L_1, L_2	Inductors.
C_1, C_2	Capacitors.
V_{O1}, V_{O2}	Output voltages.
I_{O1}, I_{O2}	Output currents.
i_{L1}, i_{L2}	Inductor currents.
V_{C1}, V_{C2}	Voltage across capacitors.

i_{D1D}, i_{D2D}	Current through the diodes.
V_{S1}, V_{S2}	Voltage across the switches.
i_{D1D}, i_{D2D}	Current through the diodes.
V_{S1}, V_{S2}	Voltage across the switches.
c_1-8	Initial values.
t	Time period.
M_{VDC1}	Voltage gain at load-1.
M_{VDC2}	Voltage gain at load-2.
T_S	Time period in one switching cycle.
f	Switching frequency.
Δi_{L1}	Inductor (L_1) ripple current.
Δi_{L2}	Inductor (L_2) ripple current.
CCM	Continuous conduction mode.
DCM	Discontinuous conduction mode.

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Implementation of Harris Hawks optimization for load frequency control of hydropower plant

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ABSTRACT

Hydropower has been used for many years and is essential to meet the renewable energy ambition of the world at present. In a hydroelectric power plant, voltage and frequency control are required, but, the voltage control could be done on the load side. In the present paper, frequency control using Harris Hawks optimization (HHO) for improved performance has been presented. Simulations are performed on the dynamic model of the hydropower plant and results are compared with the conventional PID that is designed using the Ziegler-Nichols method. The efficacy of the proposed algorithm is also tested at dynamic conditions of the hydropower plant.

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1. INTRODUCTION

Hydropower is clean and lowers costs in long run. It is a great contributor to renewable energy these days and is also used as a spinning reserve. Typically, a hydropower plant comprises different subsystems as shown in Figure 1 [1]. Frequency control in the good range is crucial for hydropower plants as power demand is increasing these days. However, the technologies involved in the hydropower plant are conventional, people still prefer gain scheduling for load frequency control but this is not suitable for more range of operating points. Many researchers proposed load frequency controllers with optimization methods for interconnected power systems [2]-[10]. Some works have been presented on load frequency control of hydropower plants using nonlinear controllers [11]-[14]. Artificial intelligence-based controllers using fuzzy and ANN controllers are proposed for load frequency control in [15]-[23]. A nonlinear load frequency controller is developed in [8], also with sliding mode controller in [24], [25], however, they have more mathematical intricacies. More new optimization methods are implemented for this problem in [20]-[23].

In literature, very few of them are based on nature-inspired optimization methods for control of frequency in a typical hydropower plant to the best of the knowledge of the authors. In the present paper, Harris Hawks optimization (HHO) for improved performance of frequency control for a hydropower plant has been presented. The benefits of the proposed method are: 1) simple control strategy with lesser

Salp swarm algorithm based optimal speed control for electric vehicles

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ABSTRACT

The paper is all about the implementation of a novel bio-inspired meta-heuristic salp swarm algorithm (SSA) for speed control of brushless DC (BLDC) motor drive that is run in sensorless control mode. The angular speed of the motor is evaluated using an extended kalman filter, in which the dynamics of the motor are nonlinear. The error in speeds between actual and estimated is fed to the PID controller. To achieve the good transient operation of the motor drive, the parameters of the PID are tuned with the SSA. The optimum PID gains are determined by the minimization of integral square error and then final optimum gains are validated on the laboratory testbed. The proposed method is also tested in various cases to check the performance of the drive. The experiments are also performed at low speeds to know the superiority of the proposed method.

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1. INTRODUCTION

Electric vehicles are popular means of transportation in the present day. Because of reasons like high efficiency, zero carbon emissions, maintenance-free, fast torque production, cost-effectiveness; the market growth of electric vehicles has surged in recent years. The major components in an electric vehicle are the electric motor, battery, power electronic converter, speed controller and transmission unit. More recently electric vehicle sales across the world are increasing. In India, government is also promoting electric vehicles by giving incentives for manufacturers as well as the customers who are buying the EVs.

The brushless DC (BLDC) motor is emerging in different fields such as electric vehicles, industrial and commercial applications due to their excellent characteristics viz. good control flexibility, noise-free operation, wide speed range and good speed regulation [1]. There are two types in the category of BLDC motors. One is a permanent magnet synchronous motor (PMSM) (motor with distributed stator winding and the other motor is BLDC with concentrated stator winding [2]. The BLDC motor is more popular because of its low cost and better control flexibility as compared to its counterpart. The motor runs in self-control mode which means that the stator winding will be given a power supply from the rotor angular position information. Therefore, we could run the motor more than the synchronous speed. In closed-loop speed control of this drive, rotor position and speed sensors are essential [3]. Figure 1 shows an electric vehicle employing a BLDC motor. The speed of the vehicle is regulated by controlling the BLDC motor [4]. The

Transformer Based 25-Level T-Type MLI for Renewable Energy Integration

Krishna Molli , P. Ajay D Vimal Raj, and N. P. Subramaniam

Abstract—The primary challenge with cascaded H-bridge multilevel inverters (MLI) is the need of a large number of switching components and distinct dc-sources for integration of renewable energy to medium voltage grid. As a result, in these types of systems, component minimization is crucial. With the advent of transformer cascaded multilevel inverters (TCMLIs), multiple dc sources in cascaded H-Bridge (CHBs) are no longer required for operation. According to the findings of this research, a novel transformer cascaded MLI with 25 levels and 12 switches can be implemented using a single dc source. The proposed MLI is comprised of two different rated isolated transformers. The proposed MLI topology offers the structural advantage of fewer semiconductor components, provides self-galvanic isolation, and generates uniform voltage levels for all turn's ratio. Furthermore, the MLI employs a switching mechanism known as nearest level control, which reduces device power loss and, hence, enhances the systems overall efficiency. To assess the performance of the proposed TCMLI, a laboratory prototype was built and simulations in the MATLAB/Simulink environment were run. In addition, a study of the systems power loss analysis has been presented. A comparison of the proposed topology to other recent topologies of a similar nature is also provided.

Index Terms—CHB, multilevel inverters (MLI), nearest level control (NLC), transformer cascaded multilevel inverter (TCMLI).

I. INTRODUCTION

TO LOWER dependency on fossil fuel for power generation, research is focused on integrating diverse renewable energy sources into the distribution grid employing various types of power electronic converters as an interface to preserve power distribution and power quality. Multilevel converters are becoming more prevalent in industry due to their benefits, which include lower common-mode voltage, lower dv/dt stress, lower switching losses, less electromagnetic interference, and lower total harmonic distortion (THD), which enables for low switching frequency operation [1]–[3]. Multilevel inverters combine a large number of separated dc sources with an array of power semiconductor switches to provide a high-quality ac output voltage. Apart from the benefits, multilevel inverters (MLIs)

have several drawbacks, including the need for higher number of semiconductor devices and isolated dc sources to achieve higher voltage levels, which is especially true for medium and high-power applications. In this scenario, because each individual switch necessitates a driving and protection circuit, having a larger number of switches increases the overall system cost, size, and control complexity.

Transformer-less MLIs and transformer-based MLIs are the two forms of MLIs. Transformer-less multilevel inverters include cascaded H-bridge MLI, flying capacitor MLI, diode clamped MLI, and mutants [4]–[10]. Each has its own set of benefits and drawbacks. The number of switching components, as well as their cost, increases as the output voltage level rises. The cascaded H-bridge MLI requires many isolated dc sources to achieve a high-resolution output voltage [8]. On the other hand, the flying capacitor MLI requires a large number of capacitors and has a capacitor voltage balance issue [11]. In diode clamped MLI, the number of diodes increases as the output voltage levels raise. The reduced switch count cascaded MLI topologies has been presented in [12]–[14]. The topology presented in [12] uses multiple dc sources to generate high quality output voltage. The MLI topologies reported in [13] and [14] requires large number of capacitors. In this regard, to reduce the requirement of a large number of dc sources and switching devices transformer-based multilevel inverters are used.

The transformer-based multilevel topologies has been presented in [15]–[17]. These setup uses a single dc voltage supply and a large number of isolated low-frequency transformers. These topologies, on the other hand, employ a greater number of transformers and switching devices in order to produce high-quality voltage. A transformer-based MLI with fewer components has been proposed in [18] and [19]. However, there is no galvanic isolation between the input and output, and the output level uniformity is highly influenced by the transformer turn's ratio. A three phase reduced switch and transformer count 17 level MLI topology is presented in [20]. However, uniformity of voltage levels is highly depending on turn's ratio of transformers. To produce 19-level a transformer-based MLI in [21], two transformers, and 12 switching devices. This configuration uses two dc voltage sources and provides galvanic isolation between the input and output.

The output voltage levels in transformer-based topologies are highly dependent on the number of transformers being employed. The entire system size, cost, and weight increase with the number of transformers [20], [18]. Furthermore, modern transformer-based MLI topologies have limitations in terms of

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Bio Medical application with Variational level set classifier tool

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Abstract— A new variational specifying for numerical unique structures that controls the Level-set ability to be almost an undeniable distance work, and thus absolutely takes out the need of the extreme representation framework. Our variational plan incorporates an inside energy term that repels the whimsy of the Level-set work from an irrefutable distance work, and an outside force term that inspirations the advancement of the no Level-set toward the ideal picture highlights, comparable quite far. The important progression of the Level-set work is the inclination stream that limits the general energy utilitarian. The proposed variational Level-set definition values three fundamental benefits over the standard Level-set nuances. Beginning, a basically more noteworthy time step can be utilized for mathematically dealing with the movement generally differential condition, and thus accelerates the bend improvement. Second, the Level-put forth line can be given general restricts that are more valuable to gather and simpler to use in a little while than the extensively utilized checked distance work. The third one is the Level-set an improvement in our plan can be really finished by clear limited capability plot and is furthermore more fit. The expected assessment has been applied to both imitated and genuine pictures with promising outcomes. The enrolled multi concentration and clinical pictures are considered source images. The trial results show that more formally dressed pictures (counting edges and bends) give high visual data.

Index Terms- Image level set formulation, Partial Differential Equation, Gradient, Segmentation.

1.INTRODUCTION

The subsequent development of the Level-set work is the inclination follow that it limits the general energy useful. Because of the interior vigor, the Level-set work is normally and naturally kept as a surmised marked distance

work during the development. Along these lines, the re-introduction technique is totally disposed of. The variational Level-set definition enjoys three principle upper hands over the conventional Level-set details. The proposed Optimum measurable classifiers calculation is in the division of a picture. The division is acted in three perspectives on the picture in the octave model. There are three principle upper hands over the conventional Level-set details. The proposed Optimum measurable classifiers calculation is in the division of a picture. The division is acted in three perspectives on the picture in the octave model.

2.TRADITIONAL APPROACH

The image information is extracted by their illumination and is enhanced with low level fuzzy sets. Using image scanning methods, sub-window potentials are identified. Due to these features of the source image is easily extracted. Classify the sub-window and merging the extracted information, the final sets are to be recognized. The resulting evolution of the level set function is the gradient flow that minimizes the overall energy functional. Due to the internal energy, the level set function is naturally and automatically kept as an approximate signed distance function during the evolution. Therefore, the re-initialization procedure is completely eliminated. The variational level set formulation has three main advantages over the traditional level set formulations. The proposed Optimum statistical classifiers algorithm is in segmentation of an image. Segmentation is performed in three views of the image in octave model.

2.1 Classical Level-Set Methods

Battery Operated Portable Electric Kettle

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ABSTRACT

Today, most of the homes have been fitted with electric kettles and heating systems. Electric kettles play a vital role in the development of hot water. Hot water is necessary to ensure good hygiene for everyone. Compared to drinking cold water, drinking hot water especially relieves congestion in the throat, and even encourages relaxing. Conventional electric kettles must be stored in a fixed location at the same time (which is not portable) with a fixed power source. On a trek, especially in cold countries, carrying enough drinking water is crucial to stay the person energized and feel well. On long hikes, it can be extremely dangerous to become dehydrated. Ice-covered hills freeze the water. There will be no electricity source available to heat the water while trekking on ice-covered hills. This condition has led to the proposed system i.e. battery operated portable kettle that can heat the water at any place. Without any fixed power supply, the proposed heating system will generate hot water that run on a battery source. The kettle can be shipped anywhere to make it more portable. This makes it very easy to use hot water safely with the battery management system. A battery management system (BMS) is an electronic regulator that monitors and controls the charging and discharging of rechargeable batteries. Battery management systems of various types are used in most devices that use rechargeable batteries.

Keywords- Battery, Electric kettle, Heating system, Hot water, Portable, trekking, Battery management system

INTRODUCTION

There are different types of kettles available to make hot water. Even though they cannot be easy to carry and even if it is a portable kettle. It works only on the power supply. So, Most of us can't able to make hot water everywhere. These problems can be overcome by making a kettle that is able to work with a battery as the power source [1]. Kettle efficiency plays a key role in order to satisfy desires. But overfilling is the major cause of reducing its efficiency which is done by a large number of households [2]. To have better and much more accuracy in the heating process, understanding how an electric circuit works and verifying the time-constant networks is very necessary. The circuit model should be known well [3]. The heating of the electric kettle can be done in many ways. It can be done by many heating elements like a chrome coil, carbon-fiber electric heating plate [4], glow plug, and many others are there. But using the copper coil as a heating element can be more affordable than others. It rapidly heats.

The temperature rise in the copper coil must be transferred to water and this temperature must be maintained. It can be maintained by a dry cement decomposing furnace. This model can be developed by various and specific methods [5]. While heating the copper coil, the battery discharges and gets heated up. So, battery temperature must be maintained. In order to maintain liquid cooling is the best technique far better than Air cooling [6]. During the charging and discharging of the battery, an excess amount of heat is produced. The liquid-cooled plate can reduce battery temperature [7]. Reachable battery systems are the ones in most appliances. The low-priced hardware must

VLSI Implementation of Integrated Massive MIMO Systems (IMMS) for N-point FFT/IFFT Processor

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ABSTRACT- The 5G technologies and OFDM introduce a substantial element of latency in the baseband Massive MIMO system. To declaim the low delay demand of multiple input and multiple outputs, a Fast Fourier Transform (FFT) and also consequent implementation was proposed. The main idea of this proposed system is to utilize the VLSI chip routing technology and reduce computations, processing time, and low latency. This proposed system is to reduce the number of computational complexities in the downlink and reorder the uplink. In OFDM implementation, the chip area of FFTs and IFFTs is occupied by memories, and these memories can be extracted using registers or RAM. An efficient data programming approach for memories and butterflies has been developed using embedded VLSI technology with multiple inputs and outputs (MIMO), known as mass embedded MIMO systems. Using this proposed scheme (Integrated Massive MIMO), N point FFT/IFFT processor design achieves a better throughput and lowest latency than for single-input pipelined FFT or IFFT architectures. In an N-point FFT/IFFT, the introduced scheme using VLSI Technology leads to more reduction in the latency. This N-point FFT/IFFT implementation is named "Integrated Massive MIMO Systems" (IMMS).

Keywords: Integrated Massive MIMO System (IMMS), OFDM, FFT, Latency, N-pt. IFFT/FFT implementation.

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1. INTRODUCTION

Rapid growth in wireless communication services, such as automation of all appliances, internet usage services, and machine-to-machine communications, leads to optimizing the 5G communication system. The new technology MIMO-OFDM has been used for the next generation communications such as 3GPP-LTE, wireless LAN, etc. MIMO, the multiple input multiple outputs, uses more transmitters and receivers to increase the channel capacity, spectral efficiency, and bandwidth without increasing the transmit power. The main objective of this work is to minimize delay and power consumption in the MIMO-OFDM communication system. The basic MIMO system consists of sending and receiving antennas, as shown in figure 1.

The MIMO OFDM transceiver, implementing the IFFT/FFT, requires more memory references to compute the butterfly diagram and twiddle factors that increase the cost and power

consumption. The long delay in the MIMO OFDM also increases the inter-symbol interference (ISI).

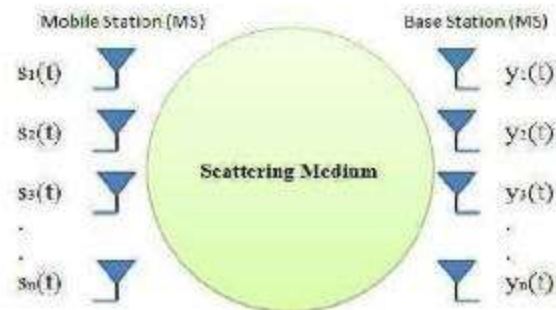


Figure 1: Basic structure of MIMO

This new proposed system, named as Integrated Massive MIMO Systems (IMMS) for Fast Fourier Transform (N-Point FFT)/ IFFT processor hardware is implemented with the help of Xilinx Software and their development boards.

M-MIMO (Massive-MIMO) technology could be a core component of the 5G New Radio (NR), which consists of excessive antennas at the bottom station to boost range and transmit energy efficiencies. At the same time, the additional antennas will help to improve the vast improvements in efficiency, power, throughput, and delay.

Due to high energy efficiency, OFDM guard bands dominate in implementing the 5G new radio structure. The massive MIMO technology is also essential in leading upcoming challenges the citizens' face, including using cheap, low-power components,



DETECTION OF ALZHEIMER'S DISEASE USING MRI IMAGES BASED ON SVM CLASSIFIER

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ABSTRACT

In the present scenario, most of the people are suffering from memory loss which leads to the cause of Alzheimer's disease. It slowly destroys the brain cells resulting in memory loss affects thinking, language skills and behavioral changes. As the age progresses, people are affected with this disease. So, it is required to detect at an initial stage, so that proper treatment can be given to the patient. There are various methods such as mini mental state examination, HOG and SURF, regional atrophy are used to detect Alzheimer's. But these methods are not reliable. So proposed method effectively detects Alzheimer's disease. This method consists of four steps that is, preprocessing, segmentation, feature extraction and classification. This method extracts various textual features using GLCM. SVM classifier is used to classify these features and it is more superior compared to other classifiers. The proposed SVM classifier based Alzheimer's detection is more superior when compared to the other methods.

Keywords: alzheimer's, feature extraction, GLCM, SVM classifier.

1. INTRODUCTION

Alzheimer's is a brain related disease that causes memory, decline in thinking and behavior. The main problem many people notice is forgetfulness and it affect their ability to work either at the office or at home. Due to this disease, people get confusion and misplace things. It usually starts slowly gets worse over period of time [1]. Presently, around fifty million people got affected due to Alzheimer's and due to population aging, it is expected that this number may increase up to 150 million by 2050 [2]. The diagnosis of Alzheimer's is very complicated due to various behavioral and cognitive symptoms [3]. Recent development and progress in the diagnosis and treatment of Alzheimers disease has helped many patients. The accurate diagnosis leads to better treatment and it will reduce financial burden. Loss of memory is the important symptom of this disease. Memory impairments deteriorate and other symptoms may develop as the disease progresses. A family member may be likely to observe the symptoms.

Mini mental state examination technique is used to detect Alzheimer's. In this technique, pre-processing stage effects the final classification [4]. It can diagnose Alzheimer's early by filtering most of the noise in the image. But, there are still some limitations in this method. One of the limitation is that the pre-processed image has lost too many features, which could affect final classification results as there will be not be able to extract these features in the feature extraction stage. HOG and SURF descriptors can be used for detection of Alzheimer's due to good performance. This algorithm helps to find matching key points fastly. But here the classification was not accurate and efficient [5]. The regional Atrophy analyses of MRI images are also used for early Alzheimer's detection. The approach catches specific anatomical structures of the brain MRI images to detect

the Alzheimer's. It also describes specific anatomically areas which are progressively affected by atrophy such as hippocampus, putamen, globuspallidus, thalamus, and caudate nucleus [6]. This method is not suitable for brain imaging, because it cannot analyze accurate volumetric of the atrophy and lesion.

The proposed method detects Alzheimer's disease accurately. It extracts various features effectively and it uses SVM classifier. It is a supervised learning machine model. SVM is mostly used to classify patterns [7]. The SVM classifier detects the Alzheimer's as Mild Decline stage that is; there are symptoms of Alzheimer's disease. People in this stage will have trouble in finding the exact word during discussions, remembering names.

2. PROPOSED METHOD

A new method for the detection of Alzheimer's disease is shown in Figure-1. It has four stages. Initially the approach starts with preprocessing of MRI images.

2.1 Preprocessing

Preprocessing step generally used to reduce noise and masking portions of images. The MRI image contains Salt and pepper noise. In this step, various filtering techniques are used for blurring and smoothing the images [8]

2.1.1 Median filter

The noise in the image is reduced using median filtering. It reduces the salt and pepper noise. It will be applied on each pixel and its value is replaced by the median. It preserves edges of the images under some conditions while removing the noise. In this filtering, the neighboring pixels are arranged as per the ascending order of the intensities and the centre pixel value is replaced by median value. This filter is very good in removing noise,

GPS Receiver Position Augmentation Using Correntropy Kalman Filter in Low Latitude Terrain

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Abstract: *If any Global Positioning System (GPS) receiver is operated in low latitude regions or urban canyons, the visibility further reduces. These system constraints lead to many challenges in providing precise GPS position accuracy over the Indian subcontinent. As a result, the standalone GPS accuracy does not meet the aircraft landing requirements, such as Category I (CAT-I) Precision Approaches. However, the required accuracy can be achieved by augmenting the GPS. Among all these issues, the predominant factors that significantly influence the receiver position accuracy are selecting a user/receiver position estimation algorithm. In this article, a novel method is proposed based on correntropy and designated as Correntropy Kalman Filter (CKF) for precise GPS applications and GPS Aided Geosynchronous equatorial orbit Augmented Navigation (GAGAN) based aircraft landings over the low latitude Indian subcontinent. The real-world GPS data collected from a dual-frequency GPS receiver located in the southern region of the Indian subcontinent (IISc), Bangalore with Lat/Long: 13.021°N/ 77.5°E) is used for the performance evaluation of the proposed algorithm. Results prove that the proposed CKF algorithm exhibits significant improvement (up to 34%) in position estimation compared to the traditional Kalman Filter.*

Keywords: *Accuracy, correntropy, correntropy kalman filter, global positioning system, kalman filter.*

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1. Introduction

The generic term preferred for the satellite-based navigation system is the Global Navigation Satellite System (GNSS), which covers global satellite constellation such as Global Positioning System (GPS), Global Orbiting Navigation Satellite System (GLONASS), BeiDou, Galileo, etc.,. Currently, GPS is the only full-fledged global satellite constellation system in GNSS; it has 32 satellites more significant than the nominal figure of 24 satellites. All over this globe, a minimum of 14 to 18 satellite signal systems are available and operating fully for various sources since 1995 in both civilian and military fields. For continuous worldwide coverage, the arrangement of GPS satellites is such that four satellites are arranged in each of 6 orbits [19].

The estimation problem has been a significant issue in industrial application and research areas covering the processing of signals, optimization, and navigational decisions; many marked fields requiring estimation, identification of system, tracking of the target, and localization. In linear dynamics and systematic applications, Kalman Filter (KF) is used to solve estimation. In general, KF and its modifications

[12, 13, 15, 20, 23] have excellent performance in Gaussian variety noises. However, their operations get degraded when non-Gaussian situations are predominantly in a system with disturbance of impulsive noises. Aforementioned, KF and Extended Kalman Filter (EKF) [12, 13, 20] are not suitable for systems that are disturbed by heavy-tailed impulsive noises. Thus, modifications in the KF are necessary to overcome this difficulty. In this paper, KF has been modified based on the correntropy criterion [17] to improve the accuracy of GPS receiver position in low latitude regions like India. The proposed Correntropy Kalman Filter (CKF) adopts the robust correntropy criterion as the optimality criterion instead of using the well-known Minimum Mean Square Error (MMSE). Unless mentioned in this article, correntropy of error may be utilized as a cost function for adaptive training of the system. It perceives that correntropy, having the advantage of being local, can be useful for the situations in which the measurement noise has a non-zero mean, non-Gaussian pattern with large outliers. Like the traditional KF, the state mean vector and covariance matrix propagation equations give prior estimations of the state and covariance matrix in CKF. A novel Fixed-point algorithm is then used to update

Novel 2-D Histogram-Based Soft Thresholding for Brain Tumor Detection and Image Compression

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ABSTRACT

The objective of image compression is to extract meaningful clusters in a given image. Significant groups are possible with absolute threshold values. 1-D histogram-based multilevel thresholding is computationally complex, and reconstructed image visual quality is comparatively low because of equal distribution of energy over the entire histogram plan. So, 2-D histogram-based multilevel thresholding is proposed in this paper by maximizing the Renyi entropy with a novel hybrid genetic algorithm, particle swarm optimization, and symbiotic organisms search (hGAPSO-SOS), and the obtained results are compared with state-of-the-art optimization techniques. Recent study reveals that PSNR fails in measuring the visual quality because of mismatch with the objective mean opinion scores (MOS). So, the authors incorporate a weighted PSNR (WPSNR) and visual PSNR (VPSNR). Experimental results examined on magnetic resonance images of brain and results with 2-D histogram reveal that hGAPSO-SOS method can be efficiently and accurately used in multilevel thresholding problem.

KEYWORDS

2-D Histogram, Genetic Algorithm, Image Compression, Image Thresholding, Particle Swarm Optimization, Renyi Entropy, Symbiotic Organisms Search

INTRODUCTION

Image compression is a technique of showing the images in procedural manner, that which reduce the number of bits essential to represent an image and in order to advance the capacity of the storage device. There are several techniques which are proposed by various researchers, but the most used image compression technique is Joint Photographic Expert Group (JPEG). Discrete Cosine Transformed (DCT) was firstly introduced later JPEG-2000 is introduced (Skodras et al., 2001).

There are many methods can be utilized for image compression, some of these methods depend on mathematical transforms such as; discrete cosine transform (Haweel et al., 2016), Discrete Wavelet Transforms (DWT) (Bruylants et al., 2015), Integer Wavelet Transforms (IWT) (Zhang and Tong, 2017), Karhunen Loeve Transforms (KLT) (Zhang & Tong, 2017), Hartley Transform (Sunder et al.), Watershed Transform (Hsu, 2012), Walsh Hadamard Transform (WHT) (Venugopal et al., 2016), Tchebichef Transform Kiruba & Sumathy, and Singular Value Decomposition (SVD) (Kumar & Vaish, 2017).

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Full Length Article

Studies on nano crystalline copper doped Nickel Zinc ferrites for optoelectronic applications

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ABSTRACT

Investigation of optical and dielectric properties of nanocrystalline $\text{Ni}_{0.65}\text{Zn}_{0.35}\text{Cu}_x\text{Fe}_{(2-2x/3)}\text{O}_4$ (for $x = 0.00-0.05$ in steps of 0.01) ferrites synthesized using hydrothermal route is successfully carried out. Two distinct analytical spectroscopic methods with Dichloro - 5,6-Dicyano - 1,4-Benzo quinone (DDQ) and Bromo Phenol Blue (BPB) are adopted to observe the UV-visible absorption spectroscopy in the dispersed solutions of all samples. The formation of ion pair complex in the presence of BPB results in two distinct absorption edges in the visible region, around 440 nm and 580 nm in the present ferrite samples. Application of Tauc's formalism gives rise to two optical band gap values E_{g1} and E_{g2} in the range of 2.12–2.40 eV and 3.583–3.674 eV, respectively. The formation of charge transfer complex with all sample solutions in presence of DDQ reagent results in sharp absorption edges in the UV-region around 306 nm wavelength. An initial rise followed by continuous drop in band gap values ranging from 3.814 to 3.824 eV is observed from Tauc's plots. The optimum refractive index (n) values calculated for the three types of band gap values using empirical relations display the optical absorption potentiality of Ni-Cu-Zn nano ferrites in both Visible and UV - regions. Variation of band gap values is ascribed to the lattice strain effect, quantum confinement and narrowing band gap effects. Real part of dielectric constant (ϵ'), dielectric loss factor ($\tan\delta$) and ac-conductivity (σ_{ac}) are studied for all samples at room temperature with in the frequency range of 42 Hz to 5 MHz. The values of ϵ' and $\tan\delta$ are observed to decrease with increase in frequency, while that of σ_{ac} are found to increase with increase in frequency. Improved dielectric properties, existence of optical band-gap values observed in the present Ni-Cu-Zn ferrites promote these materials for their utility in optoelectronic devices and high frequency applications.

1. Introduction

Unique features and a wide range of applications of spinel ferrites in various fields have led to great interest of researchers worldwide. Quantum confinement and increase in surface to volume ratio of nano particles improve the intentness of exploration of nano ferrites in multifarious dimensions. Spinel ferrites with general formula, MFe_2O_4 , where M is a divalent transition metal ion (Ni, Zn, Fe, Co, Cr, Mn, Mg, Al, etc.) or a combination of two or more metal ions, have revealed their good bio-compatibility, low toxicity, and innovative electromagnetic functionalities depending upon their composition and microstructure [1]. Among them, it is well known that Ni-Zn ferrites are a class of soft

ferrites with prevalent usage in high frequency applications and electronic industry owing to their relatively larger values of magnetization, permeability, curie temperature, resistivity, quality factor and lower values of power loss at high frequency [2]. Ni-Zn ferrites render them a fortified optimal system for power transformer cores, high frequency electronic and telecommunication gadgets, in designing good quality microwave devices such as isolators and switches [3]. The structural, electrical, dielectric, optical and magnetic properties of Ni-Zn spinel ferrites are regulated by the cation distribution among the tetrahedral (A-site) and octahedral (B-site) positions in the crystal structure and so as the method of synthesis, sintering temperature, sintering time, chemical composition and dopant ions. Studies on manipulating optical

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Structural, Magnetic Evaluation of Neodymium Doped Nickel-Zinc-Iron Soft Spinel Metal Oxides for Humidity Sensor Applications

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ABSTRACT

A series of combustion assisted low-temperature neodymium substituted Ni-Zn-Fe (NZF) nanoparticles were synthesized to unravel the impact on functional behavior of NZF due to the presence of larger Nd ions. The nanopowders were structurally evaluated with X-ray diffraction and infrared spectroscopy measurements without further heat treatment. X-ray diffraction clearly evident the monophasic nature of all the samples and solubility of Nd ions in the spinel unit cell. The average crystallite size from Scherrer and Williamson-Hall method are found below 30 and 20 nm for all the samples, respectively. A distinct shift was observed in most intense peak (3 1 1) suggesting the adjustment among interionic distances to accommodate larger ions. The microstructure, morphology was evaluated from SEM measurements. Magnetic measurements at room temperature show a dramatic change in magnetization, improvement in soft-magnetic nature with low coercivity behavior with Nd substitution. The variation of resistance with respect to humidity conditions suggested that these materials are potentially suitable for resistive humidity sensor applications.

ARTICLE HISTORY

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KEYWORDS

Ni-Zn spinel ferrite; XRD; magnetic; humidity sensor

1. Introduction

Over the decades, researchers have been intensely focused to develop and optimize spinel oxide nanoparticles due to the advantage of compositional stability, semiconducting nature resulted in fascinating properties to serve in multidisciplinary domains in electronic, energy scavenging, biomedical, and green technological applications [1–3]. These peculiar properties of spinel oxides are owing to their simple structure (AB_2O_4) described by the closely packed face-centered-cubic lattice of oxygen ions (space group $Fd\bar{3}m$, No. 227, $Z=8$). In spinel unit cell, cations are arranged in two different crystallographic anionic (O^{2-}) environments, pronounced as tetrahedral (A-site) and octahedral (B-site) sublattices [4]. Further, by the precise control over the interaction

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**ON CERTAIN CLASSES OF CONCIRCULARLY FLAT
SP-KENMOTSU MANIFOLDS ADMITTING
QUARTER-SYMMETRIC METRIC CONNECTION**

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Abstract

In this article, a class of paracontact metric manifolds known as the SP-Kenmotsu (Special Para-Kenmotsu) is considered that accepts a connection of quarter-symmetric metric. In this work it was found out that, SP-Kenmotsu manifold admitting quarter-symmetric metric connection is ξ -conircularly flat if and only when the scalar curvature \tilde{r} with regard to quarter-symmetric metric connection is equal to $2n(n-1)$. We also proved that if the resultant connection of quarter-symmetric metric is ϕ -conircularly flat, it is η -Einstein manifold in terms of quarter-symmetric metric connection. Lastly, in the study example of 5-D SP-Kenmotsu is also included, which confirms the findings presented in this paper.

Keywords: Scalar curvature, Con-circular curvature tensor, Ricci tensor, Quarter-symmetric metric connection, SP-Kenmotsu manifold, Einstein manifold.

2010 AMS classification: 53C07, 53C25.

FINITE-TIME BLOWUP
AND EXISTENCE OF GLOBAL SOLUTIONS
FOR A LOGARITHMIC SEMILINEAR HYPERBOLIC EQUATION

K. RAJENDRA PRASAD, MAHAMMAD KHUDDUSH, and BOTTA BHARATHI

Abstract. In this paper we consider the semilinear wave equation with the product of logarithmic and polynomial nonlinearities and establish the global existence and finite-time blowup of solutions by using the potential well method.

MSC 2010. 35L71, 35L20, 35L05.

Key words. Global existence, finite-time blowup, logarithmic and polynomial nonlinearity, potential well.

1. INTRODUCTION

In this paper, we consider the following initial boundary value problem for a semilinear wave equation with logarithmic nonlinearity

$$(1) \quad \left. \begin{aligned} \frac{\partial^2 w}{\partial t^2} - \Delta w &= |w|^{p-2} w \log |w|, & x \in \Omega, t > 0, \\ w(x, 0) &= w_0(x), w_t(x, 0) = w_1(x), & x \in \Omega, \\ w(x, t) &= 0, & x \in \partial\Omega, t > 0, \end{aligned} \right\}$$

where $\Omega \subset \mathbb{R}^n$ is a smooth bounded domain and $w_0(x), w_1(x)$ are given initial data. The parameter p satisfies

$$2 < p < 2^* = \begin{cases} +\infty, & n \leq 2, \\ \frac{2n}{n-2}, & n \geq 3. \end{cases}$$

One of the most important nonlinear evolution equations in the field of mathematical physics and engineering are the semilinear hyperbolic equations and there are various applications in many branches of physics such as nuclear physics, optics and geophysics [1, 4, 10].

Based on the mountain pass theorem and the Nehari manifold, Sattinger [13] firstly studied problem (1) with nonlinear source $|w|^{p-2}w$ by introducing the potential well method. Using the same method, Payne and Sattinger [11]

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**HISTOCHEMICAL ANALYSES OF THE NUCLEIC ACIDS, LIPIDS
AND BOUND LIPIDS IN THE SECRETORY DYNAMICS OF THE
NEUROSECRETORY MATERIALS OF EARTHWORM, *METAPHIRE
PEGUANA* CORRESPOND TO THE DIFFERENT SEASONS**

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ABSTRACT

Impact of seasonal temperature variations on the cytomorphic alterations of the neurosecretory cells of both the ganglia in *M. peguana* reveal that the volume of the nuclei declines appreciably and the neurosecretory substance remain stored within the perikarya during the successive seasons. The morphological activation reaches the peak at the early monsoon period. However, during this period the larger neurosecretory cells show enlargement of nuclei and their perikarya. Besides spectacular engorgement of neurosecretory material within the neurosecretory cells are noticeable. So it can be speculated that winter season is the ideal breeding season of the species under study. The intensity of the neurosecretory materials accumulation at the neurohaemal sites in accordance with the seasonal variations both

ganglia reveal the following criteria: At the pre- monsoon the neuropile do not show arborization of neurosecretory fibres but in some instances accumulation of the neurosecretory materials may be observed at the margin of the neuropile. The early monsoon period also maintains the same trends but at late monsoons rich vascularization are observed in both ganglia and neuropile show finer branches of capillaries and neurosecretory fibers possessing deep stainable substances. Axonal transport may be noticeable in confluence with the capillaries. At post monsoon period neurosecretory material accumulation is noticeable at the accumulation zone where capillaries containing histochemical stainable inclusions are



Global existence and blow-up of solutions for a p -Kirchhoff type parabolic equation with logarithmic nonlinearity

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Abstract

In this paper a class of p -Kirchhoff type parabolic equation with logarithmic nonlinearity is considered. By applying Galerkin's approximation and the modified potential well method, some sufficient conditions are obtained for the existence of global and finite blow up of solutions.

Keywords p -Kirchhoff · Potential well · Global existence · Blow up · Logarithmic nonlinearity

Mathematics Subject Classification 35K20 · 35K92

1 Introduction

In recent years researchers are shown much attention to study Kirchhoff type problems for their applications to the modeling of various physical and biological phenomena. More specifically, Kirchhoff [11] proposed the following Kirchhoff model

$$\rho \frac{\partial^2 \varpi}{\partial t^2} - \left(\frac{P_0}{h} - \frac{E}{2L} \int_0^L \left| \frac{\partial \varpi}{\partial x} \right| dx \right) \frac{\partial^2 \varpi}{\partial x^2} = 0,$$

and is a generalization of the D'Alembert wave equation for free vibrations of elastic strings, here L is the length of the string, h is the area of the cross section, E is the

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CERTAIN CURVATURE CONDITIONS ON LORENTZIAN PARA-KENMOTSU MANIFOLDS

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Abstract

We classify Lorentzian para-Kenmotsu manifolds which satisfy the curvature conditions $W_2.C = 0$, $Z.C = L_C Q(g, C)$, $W_2.Z - Z.W_2 = 0$ and $W_2.Z + Z.W_2 = 0$, where W_2 is the Weyl-projective tensor, Z is the concircular tensor, and C is the Weyl conformal curvature tensor. We study and have shown that the manifold M is η -Einstein provided that the Weyl-projective curvature tensor W_2 meets the condition $W_2.Z - Z.W_2 = 0$, and it is an Einstein manifold if $W_2.Z + Z.W_2 = 0$. Finally, in this article, we derive the conditions in relation to conformally flatness of the manifold, whenever the LP-Kenmotsu manifold satisfies the condition $Z.C = L_C Q(g, C)$.

Keywords: Para-contact metric manifold, LP-Kenmotsu manifold, concircular curvature tensor, conformal curvature tensor, Weyl-projective tensor.

2010 Mathematics Subject Classification: 53C07, 53C25

I. INTRODUCTION

In 1989, K. Matsumoto [7] introduced the notion of Lorentzian paracontact and in particular, Lorentzian para-Sasakian (LP-Sasakian) manifolds. Later, these manifolds have been widely studied by many geometers Matsumoto and Mihai [8], Mihai and Rosca [6], Mihai, Shaikh and De [5], Venkatesha and Bagewadi [15], Venkatesha, Pradeep Kumar and Bagewadi [16, 17] and obtained several results of these manifolds.

In 1995, Sinha and Sai Prasad [2] defined a class of almost paracontact metric manifolds namely para-Kenmotsu (briefly P-Kenmotsu) and special para-Kenmotsu (briefly SP-Kenmotsu) manifolds in similar to P-Sasakian and SP-Sasakian manifolds. In 2018, Abdul Haseeb and Rajendra Prasad defined a class of Lorentzian almost paracontact metric manifolds namely Lorentzian para-Kenmotsu (briefly LP-Kenmotsu) manifolds [1] and they studied ϕ -semisymmetric LP-Kenmotsu manifolds with a quarter-symmetric non-metric connection admitting Ricci solitons [13].

On the other hand, In 1970 [4], Pokhariyal and Mishra introduced new tensor fields, called the Weyl-projective curvature tensor W_2 of type (1,3) and the tensor field E on a Riemannian manifold. The Weyl-projective curvature tensor W_2 with respect to Riemannian connection on a Riemannian manifold M is given by:

$$W_2(X, Y)W = R(X, Y)W + \frac{1}{n-1} [g(X, W)QY - g(Y, W)QX], \quad (1)$$



Global existence and blowup of solutions for a semilinear Klein-Gordon equation with the product of logarithmic and power-type nonlinearity

Mahammad Khuddush¹ · K. Rajendra Prasad² · B. Bharathi³

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Abstract

In this paper we study the initial boundary value problem of a semilinear Klein-Gordon equation with the multiplication of logarithmic and polynomial nonlinearities. By using potential well method and energy method, we obtain the existence of global solutions and finite-time blowup solutions.

Keywords Global existence · Klein-Gordan equation · Blowup · Logarithmic nonlinearity · Potential well

Mathematics Subject Classification 35L05 · 35L10 · 35B40

1 Introduction

In this paper we consider the following initial boundary value problem for a semilinear Klein-Gordan equation with polynomial nonlinearity of the factor of logarithmic term

$$\left. \begin{aligned} \frac{\partial^2 z}{\partial t^2} - \Delta z + z &= |z|^p \log |z|, & x \in \Omega, t > 0, \\ z(x, 0) = z_0(x), \frac{\partial z}{\partial t}(x, 0) &= z_1(x), & x \in \Omega, \\ z(x, t) &= 0, & x \in \partial\Omega, t > 0, \end{aligned} \right\} \quad (1)$$

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Investigation of structural, magnetic, and electrical properties of Ru doped brownmillerite oxide: KBiFe_2O_5

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HIGHLIGHTS

- Ruthenium (Ru) doped KBiFe_2O_5 brownmillerite nanomultiferroic nanoparticles were prepared by coprecipitation route.
- Ru influence the magnetic and electrical properties of KBiFe_2O_5 .
- Facile route resulted uniform grain with dense microstructure formation.
- Ru dopant influence the optical and electrical bandgap.

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ABSTRACT

We studied and reported the Ruthenium (Ru) doped KBF (KBiFe_2O_5) multiferroic nanoparticles on structural, magnetic and electrical properties as a function of dopant and temperature, synthesized through coprecipitation route. X-ray Diffraction spectra of all the samples were indexed with orthorhombic structure (space group $P2_1am$) at room temperature and lattice constant decreased with Ru substitution. The structural parameters including bond lengths and angles were refined using a standard Rietveld program. Average crystallite measured from scherrer method increases with increasing annealing temperature. Morphology from TEM confirms control over uniform distribution of particle size and shape. Zero field-cooled (ZFC)-Field-Cooled (FC) magnetic measurements reveals superparamagnetic behaviour above room temperature. Magnetic hysteresis loops ($M - H$) measured at 5 K and 300 K shows improvement with Ru substitution. An insignificant decrease in optical band gap 2.35 to 2.23 eV observed from UV-Vis spectroscopy with Ru substitution. Ferroelectric loops resembling lossy dielectric nature of unpoled samples. Activation energy estimated from DC electrical resistivity was found to be 0.6 eV. Room temperature Dielectric data reveals Maxwell-Wagner type dielectric dispersion and analyzed based on the intrinsic and extrinsic parameters.

1. Introduction

Multiferroics (MFs) consolidate the macroscopic and microscopic properties of structure and crystallinity of the material in terms of their ferroic (Ferroelasticity, Ferromagnetic and Ferroelectricity) orders. The dynamical magnetoelectric (ME) coupling between dielectric and magnetic orders of MF materials is the fundamental building block of spintronics and hybrid memory systems [1–3]. Furthermore, MF orders demonstrate the establishment of magnetic point group in which the

magnetic field control of electric polarization is employed [4–6]. This integrates the ME, optical, magnetic, and dielectric studies on single crystals and single domains. Switching the direction of ferroic order and the existence of spontaneous macroscopic property with/without the influence of external field are most focused for future commercial application [2]. A careful study of magnetoelectricity with semiconducting properties in a single structure at room temperature (RT) can advance the spintronics.

BiFeO_3 (BFO) is widely considered Type-I MF possessing feeble G-

Abbreviations: PPMS, physical property measurement system.

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DENUMERABLY MANY POSITIVE RADIAL SOLUTIONS FOR THE ITERATIVE SYSTEM OF ELLIPTIC EQUATIONS IN AN ANNULUS

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MSC 2010 Classifications: Primary 35J66, 35J60; Secondary 34B18, 47H10.

Keywords and phrases: Nonlinear elliptic system, annulus, positive radial solution, Krasnoselskii's fixed point theorem.

Abstract Sufficient conditions are derived for the existence of denumerably many positive radial solutions to the iterative system of elliptic equations

$$\begin{aligned} \Delta u_j + P(|x|)g_j(u_{j+1}) &= 0, \quad R_1 < |x| < R_2, \\ u_{\ell+1} &= u_1, \quad j = 1, 2, \dots, \ell, \end{aligned}$$

$x \in \mathbb{R}^N$, $N > 2$, subject to a linear mixed boundary conditions at R_1 and R_2 , by an application of Krasnoselskii's fixed point theorem.

1 Introduction

The system of nonlinear elliptic equations of the form

$$\left. \begin{aligned} \Delta u_j + g_j(u_{j+1}) &= 0 \quad \text{in } \Omega, \\ u_j &= 0 \quad \text{on } \partial\Omega, \end{aligned} \right\} \quad (1.1)$$

where $j \in \{1, 2, 3, \dots, \ell\}$, $u_{\ell+1} = u_1$, and Ω is a bounded domain in \mathbb{R}^N , has an important applications in population dynamics, combustion theory and chemical reactor theory. The recent literature for the existence, multiplicity and uniqueness of positive solutions for (1.1), see [5, 3, 6, 9, 10, 11] and references therein.

In [7], Dong and Wei established the existence of radial solutions for the following nonlinear elliptic equations with gradient terms in annular domains,

$$\begin{aligned} -\Delta u &= g(|x|, u, \frac{x}{|x|} \cdot \nabla u) \quad \text{in } \Omega_a^b, \\ u &= 0 \quad \text{on } \partial\Omega_a^b, \end{aligned}$$

by using Schauder's fixed point theorem and contraction mapping theorem. In [15], Padhi, Graef and Kanaujiya considered the following elliptic boundary value problem in an annulus,

$$\begin{aligned} \Delta u + \lambda h(|x|, u) &= 0 \quad \text{in } \Omega, \\ u &= 0 \quad \text{on } \partial\Omega, \end{aligned}$$

and established the existence of positive radial solutions by the revised version of Gustaf-son and Schmitt fixed point theorems. In [12], R. Kajikiya and E. Ko established the existence of positive radial solutions for a semipositone elliptic equation of the form,

$$\begin{aligned} -\Delta u &= \lambda g(u) \quad \text{in } \Omega, \\ u &= 0 \quad \text{on } \partial\Omega, \end{aligned}$$

Denumerably many positive radial solutions for the iterative system of Minkowski-Curvature equations

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Abstract

This paper deals with the existence of denumerably many positive radial solutions to the iterative system of Dirichlet problems

$$\operatorname{div} \left(\frac{\nabla z_j}{\sqrt{1 - |\nabla z_j|^2}} \right) + g_j(z_{j+1}) = 0 \text{ in } \Omega,$$
$$z_j = 0 \text{ on } \partial\Omega,$$

where $j \in \{1, 2, \dots, n\}$, $z_1 = z_{n+1}$, Ω is a unit ball in \mathbb{R}^N involving the mean curvature operator in Minkowski space by applying Krasnoselskii's fixed point theorem, Avery-Henderson fixed point theorem and a new (Ren-Ge-Ren) fixed point theorem in cones.

Keywords: Positive radial solution, Minkowski-curvature equation, fixed point theorem, cone
2010 MSC: Primary 35A24; Secondary 34B15, 35A20, 35J93.

1. Introduction

The Dirichlet problems involving the mean curvature operator in Minkowski space

$$\mathcal{M}_c(z) = \operatorname{div} \left(\frac{\nabla z}{\sqrt{1 - |\nabla z|^2}} \right)$$

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