



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC B++ Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Bhogapuram (Mandal), Vizianagaram -531162.

www.aietta.ac.in, principal@aietta.ac.in

6.3.2

Average percentage of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year.

Additional information

6.3.2 Average percentage of teachers provided with financial support to attend conferences / workshops and towards membership fee of Professional bodies during the year.

S.No	Name of teacher	Name of conference / workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support	Amount of support (in INR)	Page No.
2021 – 2022 (Total Faculty - 106)						
1	Ramu Garugubilli	International Conference on Advances in Communications Computing & Electronic Systems (ACCES-2022)	---	1500	One Thousand Five Hundred	9
2	Sk. Sharieff	International Conference on Advances in Communications Computing & Electronic Systems (ACCES-2022)	---	1500	One Thousand Five Hundred	10
3	A M Venkata Praveen	International Conference on Advances in communications Computing & Electronic Systems (ACCES-2022)	----	1500	One Thousand Five Hundred	11
4	K Jaswanth	International Conference on Advances in Communications Computing & Electronic Systems (ACCES-2022)	----	1500	One Thousand Five Hundred	12



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5	K Mohan Pradeep	International Conference on Advances in Communications Computing & Electronic Systems (ACCES-2022)	----	1500	One Thousand Five Hundred	13
6	V Pradeep Kumar	International Conference on Advances in Communications Computing & Electronic Systems (ACCES-2022)	----	1500	One Thousand Five Hundred	14
7	Ramu Garugubilli	One week online FDP on Artificial Intelligence/machine learning for mechanical engineering problems	----	200	Two Hundred	15
8	V Pradeep Kumar	One week online FDP on Artificial Intelligence/machine learning for mechanical engineering problems	----	200	Two Hundred	16
9	K Mohan Pradeep	One week online FDP on Artificial Intelligence/machine learning for mechanical engineering problems	----	200	Two Hundred	17
10	K Jaswanth	One week online FDP on Artificial Intelligence/machine learning for mechanical engineering problems	----	200	Two Hundred	18
11	Sk. Sharieff	One week online FDP on Artificial Intelligence/machine learning for mechanical engineering problems	----	200	Two Hundred	19
12	M Lakshmi Sramika	One week online FDP on Artificial Intelligence/machine learning for mechanical engineering problems	----	200	Two Hundred	20
13	J Jagadish	One week online FDP on Artificial Intelligence/machine learning for mechanical engineering problems	----	200	Two Hundred	21
14	B.Hari Krishna Yadav	One week online FDP on Artificial Intelligence/machine learning for mechanical engineering problems	----	200	Two Hundred	22
15	M Raghava Rao	One week online FDP on Artificial Intelligence/machine learning for mechanical engineering problems	----	200	Two Hundred	23
16	Saran Tej Vulli	One week online FDP on Artificial Intelligence/machine learning for mechanical engineering problems	----	200	Two Hundred	24
17	L Bhavani Shankar	One week online FDP on Artificial Intelligence/machine learning for mechanical engineering problems	----	200	Two Hundred	25



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18	A C G Ramanjaneyulu	One week online FDP on Artificial Intelligence/machine learning for mechanical engineering problems	----	200	Two Hundred	26
19	Deepthi Kaza	One week online FDP on Artificial Intelligence/machine learning for mechanical engineering problems	----	200	Two Hundred	27
20	Parimala Kotla Radhika	One week online FDP on Artificial Intelligence/machine learning for mechanical engineering problems	----	200	Two Hundred	28
21	Sk. Sharieff	A Two day online FDP on Radiation Effects on Polymers and Advances in Organic Optoelectronic Devices	----	200	Two Hundred	29
22	J Jagadish	7-day training program on Advanced Materials & Manufacturing Methods for Automobile Applications	----	500	Five Hundred	30
23	A M Venkata Praveen	A Two Day Online FDP on " Radiation Effects on Polymers and Advances in Organic Optoelectronic Devices"	----	200	Two Hundred	31
24		Membership in "International Association of Academic Plus corporate "	----	500	Five Hundred	32
25		One week online FDP on Artificial Intelligence/machine learning for mechanical engineering problems	----	200	Two Hundred	33
26	P Santhosh Kumar	International Conference on Advances in Communications Computing & Electronic Systems (ACCES-2022)	----	500	Five Hundred	34
27	Suribabu Koyya	International Conference on Advances in Communications Computing & Electronic Systems (ACCES-2022)	----	500	Five Hundred	35
28	K.syamala	A Five day FDP on "VLSI Design using EDA Tools"	----	500	Five Hundred	36
29	K.Avinash Kumar	A Five day FDP on "VLSI Design using EDA Tools"	----	500	Five Hundred	37
30	K.Swetha	A Five day FDP on "VLSI Design using EDA Tools"	----	500	Five Hundred	38
31	S.Santhoshi Bhavani	A Five day FDP on "VLSI Design using EDA Tools"	----	500	Five Hundred	39
32	P.Saraswathi	A Five day FDP on "VLSI Design using EDA Tools"	----	500	Five Hundred	40



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33	Shalemu Raju matta	A Five day FDP on "VLSI Design using EDA Tools"	----	500	Five Hundred	41
34	G.Chinna Rao	Five day e-workshop on Latex organized by the Department of Mathematics, School of Science, GITAM Bengaluru India.	----	200	Two Hundred	42
35	G.Chinnayya	Five day e-workshop on Latex organized by the Department of Mathematics, School of Science, GITAM Bengaluru India.	----	200	Two Hundred	43
36	K.T.DanielMohan	Five day e-workshop on Latex organized by the Department of Mathematics, School of Science, GITAM Bengaluru India.	----	200	Two Hundred	44
37	G Chinnayya	A Two day National Webinar on emerging Trends in Mathematical Sciences and Engineering Applications	----	100	One Hundred	45
38	Madda Mudedla Madhu	One week online FDP on Artificial Intelligence/machine learning for mechanical engineering problems	----	200	Two Hundred	46
39	Ganja Lavanya Lakshmi	One week online FDP on Artificial Intelligence/machine learning for mechanical engineering problems	----	200	Two Hundred	47
40	Srinu Kotha	One week online FDP on Artificial Intelligence/machine learning for mechanical engineering problems	----	200	Two Hundred	48
41	Raghu Maharana	One week online FDP on Artificial Intelligence/machine learning for mechanical engineering problems	----	200	Two Hundred	49
42	K Sarika	One week online FDP on Artificial Intelligence/machine learning for mechanical engineering problems	----	200	Two Hundred	50
43	Sunil Kumar Jena	One week online FDP on Artificial Intelligence/machine learning for mechanical engineering problems	----	200	Two Hundred	51
44	P Rama Krishna	One week online FDP on Artificial Intelligence/machine learning for mechanical engineering problems	----	200	Two Hundred	52
45	Venkata Naidu Bankuru	One week online FDP on Artificial Intelligence/machine learning for mechanical engineering problems	----	200	Two Hundred	53
46	N Sakitha Sri	Online FDP on Quantum Computing	----	500	Five Hundred	54



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47	B Madhusudhana Rao	Online FDP on Quantum Computing	----	500	Five Hundred	55
48	Y Ramesh Kumar	Online FDP on Quantum Computing	----	500	Five Hundred	56
49	P Satyananarayana	Online FDP on Quantum Computing	----	500	Five Hundred	57
50	S Kesava Rao	One week FDP on Machine Learning based Applications	----	300	Three Hundred	58
51	K Mehar Prasad	One week FDP on Machine Learning based Applications	----	300	Three Hundred	59
52	P Ravi Kumar	One week FDP on Machine Learning based Applications	----	300	Three Hundred	60
53	VMurali Krishna	One week FDP on Machine Learning based Applications	----	300	Three Hundred	61
54	M Jaya Ram	Five Day online faculty development program on Emerging Technologies in AI, Data Science and Cyber Security	----	300	Three Hundred	62
55	Ch Sravanthi	Five Day online faculty development program on Emerging Technologies in AI, Data Science and Cyber Security	----	300	Three Hundred	63
56	G K MahaLakshmi	Five Day online faculty development program on Emerging Technologies in AI, Data Science and Cyber Security	----	300	Three Hundred	64
57	H Deva Raj	Five Day online faculty development program on Emerging Technologies in AI, Data Science and Cyber Security	----	300	Three Hundred	65
58	P Monika	Two Week International FDP on the ERA of change-Recent Advancements of Machine Learning in terms of AI &IoT	----	500	Five Hundred	66
59	A Swathi	Two Week International FDP on the ERA of change-Recent Advancements of Machine Learning in terms of AI &IoT	----	500	Five Hundred	67
60	M Sangita	Two Week International FDP on the ERA of change-Recent Advancements of Machine Learning in terms of AI &IoT	----	500	Five Hundred	68



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61	K Hymavathi	Two Week International FDP on the ERA of change-Recent Advancements of Machine Learning in terms of AI &IoT	----	500	Five Hundred	69
62	Surendra Kumar Ch	Two Week FDP Effective Teaching Learning towards outcome based education	----	300	Three Hundred	70
63	TV Prasad	Two Week FDP Effective Teaching Learning towards outcome based education	----	300	Three Hundred	71
64	V Sarada	Two Week FDP Effective Teaching Learning towards outcome based education	----	300	Three Hundred	72
65	P Aruna	Two Week FDP Effective Teaching Learning towards outcome based education	----	300	Three Hundred	73
66	P Anil Kumar	One week online FDP on Artificial Intelligence/machine learning for mechanical engineering problems	----	200	Two Hundred	74
67	Dr. B Avinash Ben	One week online FDP on Artificial Intelligence/machine learning for mechanical engineering problems	----	200	Two Hundred	75
68	K Shyamala	A Three day FDP on " Recent advances in IoT and Machine learning : Application and Hands-on"	----	200	Two Hundred	76
69	G Bhanu Gupta	A Three day FDP on " Recent advances in IoT and Machine learning : Application and Hands-on"	----	200	Two Hundred	77
70	D Rahul	A Three day FDP on " Recent advances in IoT and Machine learning : Application and Hands-on"	----	200	Two Hundred	78
71	Akula Swathi	A five days online FDP on "Applications of Machine Learning"	----	500	Five Hundred	79
72	P Dinesh Chandra	A five days online FDP on "Applications of Machine Learning"	----	500	Five Hundred	80
73	P Lavanya	A five days online FDP on "Applications of Machine Learning"	----	500	Five Hundred	81
74	Ch Roopa Devi	A five days online FDP on "Applications of Machine Learning"	----	500	Five Hundred	82
75	G Jyothi	A five days online FDP on "Applications of Machine Learning"	----	500	Five Hundred	83
76	Ch Sridevi	A five days online FDP on "Applications of Machine Learning"	----	500	Five Hundred	84



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77	G Dharma raju	A five days online FDP on "Applications of Machine Learning"	----	500	Five Hundred	85
78	K T D Mohan	A five days online FDP on "Applications of Machine Learning"	----	500	Five Hundred	86
79	A Vasudeva rao	A five days online FDP on "Applications of Machine Learning"	----	500	Five Hundred	87
80	G Anand	One Week FDP on "Precast Structures-Opportunities and challenges in India"	----	500	Five Hundred	88
81	I Santhosh Kumar	One Week FDP on "Precast Structures-Opportunities and challenges in India"	----	500	Five Hundred	89
82	R Venkatesh	One Week FDP on "Precast Structures-Opportunities and challenges in India"	----	500	Five Hundred	90
83	R Rohith	One Week FDP on "Precast Structures-Opportunities and challenges in India"	----	500	Five Hundred	91
84	P Pallavi	One Week FDP on "Precast Structures-Opportunities and challenges in India"	----	500	Five Hundred	92
85	M Sumathi	One Week FDP on "Precast Structures-Opportunities and challenges in India"	----	500	Five Hundred	93
86	P Satyananarayana	A five days online FDP on "Applications of Machine Learning"	----	500	Five Hundred	94
87	S Kesava Rao	A five days online FDP on "Applications of Machine Learning"	----	500	Five Hundred	95
88	H Deva Raj	A five days online FDP on "Applications of Machine Learning"	----	500	Five Hundred	96
89	P Monika	A five days online FDP on "Applications of Machine Learning"	----	500	Five Hundred	97
90	Surendra Kumar Ch	A five days online FDP on "Applications of Machine Learning"	----	500	Five Hundred	98
91	V Sarada	A five days online FDP on "Applications of Machine Learning"	----	500	Five Hundred	99
92	P Aruna	A five days online FDP on "Applications of Machine Learning"	----	500	Five Hundred	100



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93	T V Prasad	A five days online FDP on "Applications of Machine Learning"	----	500	Five Hundred	101
94	G Trinadha Rao	A five days online FDP on "Applications of Machine Learning"	----	500	Five Hundred	102
95	B Vineela	A five days online FDP on "Applications of Machine Learning"	----	500	Five Hundred	103
96	T Paramesh	A five days online FDP on "Applications of Machine Learning"	----	500	Five Hundred	104
97	S Prasad	A five days online FDP on "Applications of Machine Learning"	----	500	Five Hundred	105
98	B Ganesh	A five days online FDP on "Applications of Machine Learning"	----	500	Five Hundred	106
99	N V S Aravind	A five days online FDP on "Applications of Machine Learning"	----	500	Five Hundred	107
100	G Venkata Swamy	A five days online FDP on "Applications of Machine Learning"	----	500	Five Hundred	108
101	Y Ramesh Kumar	A five days online FDP on "Applications of Machine Learning"	----	500	Five Hundred	109
102	B Madhusudhana Rao	A five days online FDP on "Applications of Machine Learning"	----	500	Five Hundred	110
103	P Ravi Kumar	A five days online FDP on "Applications of Machine Learning"	----	500	Five Hundred	111
104	K Mehar Prasad	A five days online FDP on "Applications of Machine Learning"	----	500	Five Hundred	112
105	Dr. A Bala Krishna	A five days online FDP on "Applications of Machine Learning"	----	500	Five Hundred	113
106	R Swapna	International Conference on Recent Trends in Metallurgy, Materials Science and Manufacturing (Materials Today: Proceedings)	----	2000	Two Thousand	114

**INTERNATIONAL CONFERENCE ON ADVANCES IN COMMUNICATIONS,
COMPUTING & ELECTRONIC SYSTEMS (ACCES-2022)**

CERTIFICATE OF PARTICIPATION

This is to certify that Prof. / Dr. / Mr. / Mrs./Ms. **RAMU GARUGUBILLI** from **Avanthi institute of engineering and Technology, Vishakapatnam, Andhra Pradesh, India.** Participated / Presented paper entitled **Evaporation characteristics influence on exhaust emissions of waste plastic oil petro diesel blends.** in International Conference Advances in Communications, Computing & Electronic Systems (ACCES-2022), for the event during 6th - 7th May 2022, AIET, Vizianagaram, A.P., India.

S B Goyal

CITY University
(Dr. S.B. Goyal)

NLL5AM-CE000055



AIET
(Dr. S.N.V. Ganesh)

**INTERNATIONAL CONFERENCE ON ADVANCES IN COMMUNICATIONS,
COMPUTING & ELECTRONIC SYSTEMS (ACCES-2022)**

CERTIFICATE OF PARTICIPATION

This is to certify that Prof. / Dr. / Mr. / Mrs./Ms. **SHAIK HIDAYATULLA SHARIFF** from **Avanthi Institute of Engineering and Technology, vizianagaram** Participated / Presented paper entitled **Design of Automated Braking System of Vehicle Using PLC Ladder and Simulated with WPL Software** in International Conference Advances in Communications, Computing & Electronic Systems (ACCES-2022), for the event during 6th - 7th May 2022, AIET, Vizianagaram, A.P., India.

S B Goyal

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(Dr. S.N.V. Ganesh)

**INTERNATIONAL CONFERENCE ON ADVANCES IN COMMUNICATIONS,
COMPUTING & ELECTRONIC SYSTEMS (ACCES-2022)**

CERTIFICATE OF PARTICIPATION

This is to certify that Prof. / Dr. / Mr. / Mrs./Ms. **Dr. A.M.VENKATA PRAVEEN** from **Avanthi Institute of Engineering and Technology** Participated / Presented paper entitled **“Study of consistency in multi-response optimization generated with GRA using Sensitivity Analysis in Orthogonal Turn-mill and Lathe processes under ecofriendly conditions”** in International Conference Advances in Communications, Computing & Electronic Systems (ACCES-2022), for the event during 6th - 7th May 2022, AIET, Vizianagaram, A.P., India.

S B Goyal

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(Dr. S.B. Goyal)

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CERTIFICATE OF PARTICIPATION

This is to certify that Prof. / Dr. / Mr. / Mrs./Ms. **Kattula Jaswanth** from **Avanthi Institute of Engineering and Technology** Participated / Presented paper entitled **“Study of consistency in multi-response optimization generated with GRA using Sensitivity Analysis in Orthogonal Turn-mill and Lathe processes under ecofriendly conditions”** in International Conference Advances in Communications, Computing & Electronic Systems (ACCES-2022), for the event during 6th - 7th May 2022, AIET, Vizianagaram, A.P., India.

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CERTIFICATE OF PARTICIPATION

This is to certify that Prof. / Dr. / Mr. / Mrs./Ms. **Kuncha Mohan Pradeep** from **Avanthi institute of engineering and Technology, Vishakapatnam, Andhra Pradesh, India** Participated / Presented paper entitled **Evaporation characteristics influence on exhaust emissions of waste plastic oil petro diesel blends.** in International Conference Advances in Communications, Computing & Electronic Systems (ACCES-2022), for the event during 6th - 7th May 2022, AIET, Vizianagaram, A.P., India.

S B Goyal

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(Dr. S.B. Goyal)

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Institute of Engineering & Technology

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**INTERNATIONAL CONFERENCE ON ADVANCES IN COMMUNICATIONS,
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CERTIFICATE OF PARTICIPATION

This is to certify that Prof. / Dr. / Mr. / Mrs./Ms. **Vommi Pradeep Kumar** from **Avanthi institute of engineering and Technology, Vishakapatnam, Andhra Pradesh, India** Participated / Presented paper entitled **Evaporation characteristics influence on exhaust emissions of waste plastic oil petro diesel blends in International Conference Advances in Communications, Computing & Electronic Systems (ACCES-2022)**, for the event during 6th - 7th May 2022, AIET, Vizianagaram, A.P., India.

S B Goyal

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(Dr. S.B. Goyal)

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AIET

(Dr. S.N.V. Ganesh)



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(Approved by AICTE & Permanently Affiliated to JNTUK)

Vishnupur, Bhimavaram-534202, West Godavari District, Andhra Pradesh, India

CERTIFICATE OF PARTICIPATION

This certificate is presented to :

RAMU GARUGUBILLI

for participating in a one week online FDP on “Artificial Intelligence/Machine Learning for Mechanical Engineering Problems” during 21st -26th March 2022 organized by the Department of Mechanical Engineering.

Mr. B. Satya Krishna
Coordinator

Dr. Ch. Hari Krishna
Convener & HOD



Dr. P. Srinivasa Raju
Vice Principal

Dr. G. Srinivasa Rao
Principal



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V PRADEEP KUMAR

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This certificate is presented to :

Sk. Hidayatulla Shariff

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M LAKSHMI SRAMKA

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J JAGADISH KUMAR

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Coordinator

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This certificate is presented to :

SARANTEJ VULLI

for participating in a one week online FDP on “Artificial Intelligence/Machine Learning for Mechanical Engineering Problems” during 21st -26th March 2022 organized by the Department of Mechanical Engineering.

Mr. B. Satya Krishna
Coordinator

Dr. Ch. Hari Krishna
Convener & HOD



Dr. P. Srinivasa Raju
Vice Principal

Dr. G. Srinivasa Rao
Principal



Shri Vishnu Engineering College for Women (Autonomous & NAAC 'A' Grade)

(Approved by AICTE & Permanently Affiliated to JNTUK)

Vishnupur, Bhimavaram-534202, West Godavari District, Andhra Pradesh, India

CERTIFICATE OF PARTICIPATION

This certificate is presented to :

LBHAVANI SHANKAR

for participating in a one week online FDP on “Artificial Intelligence/Machine Learning for Mechanical Engineering Problems” during 21st -26th March 2022 organized by the Department of Mechanical Engineering.

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ACG RAMANJANEYALU

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DEEPTHI KAZA

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CERTIFICATE OF PARTICIPATION

This certificate is presented to :

PARIMALA KOTLA RADHIKA

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Coordinator

Dr. Ch. Hari Krishna
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Vice Principal

Dr. G. Srinivasa Rao
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Certificate of Participation

This is to certify that SHAIK HIDAYATULLA SHARIFF , Associate Professor of AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY, VIZIANAGARAM has actively participated and successfully completed A Two Day Online FDP on “*Radiation Effects on Polymers and Advances in Organic Optoelectronic Devices*” conducted on 2nd&3rdFeb, 2022.

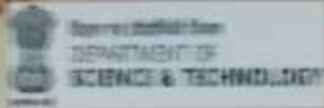
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Mr. K. Satish Kumar
CONVENER

Dr. K. Kumar
DEAN & HOD BSH

Dr. Prakash
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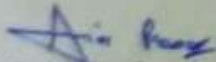


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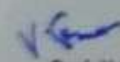
This is to certify that Mr. / Ms. JUTHIGA - JAGADISH
has participated in the *DST Sponsored National Level training program on **ADVANCED MATERIALS & MANUFACTURING METHODS FOR AUTOMOBILE APPLICATIONS*** organized by Department of Mechanical Engineering, GITAM School of Technology, GITAM (Deemed to be University), Visakhapatnam during **23rd - 29th, November 2022.**


Prof. D. Siva Prasad

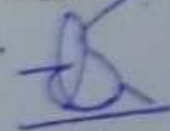
Coordinator
Dept. of Mechanical Engineering
GST, GITAM, Visakhapatnam


Prof. B. Srinivasa Prasad

STUTI Program Coordinator
Department of Mechanical Engineering,
Deputy Director, Research Activities, GST, GITAM


Prof. V. Srinivas

Convener & Head of the Department
Dept. of Mechanical Engineering
GST, GITAM, Visakhapatnam



Prof. C. Vijaysekhar
Dean
GITAM School of Technology
GITAM, Visakhapatnam



Viswambhara Educational Society
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This is to certify that AMV PRAVEEN , ASSOCIATE PROFESSOR of AVANTHI INSTITUTE OF ENGG. AND TECHNOLOGY has actively participated and successfully completed A Two Day Online FDP on “*Radiation Effects on Polymers and Advances in Organic Optoelectronic Devices*” conducted on 2nd&3rdFeb, 2022.

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Mr. K. Satish Kumar
CONVENER

Dr. K. Kumar
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Vishnupur, Bhimavaram-534202, West Godavari District, Andhra Pradesh, India

CERTIFICATE OF PARTICIPATION

This certificate is presented to :

A M VENKATA PRAVEEN

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Mr. B. Satya Krishna
Coordinator

Dr. Ch. Hari Krishna
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Dr. P. Srinivasa Raju
Vice Principal

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**INTERNATIONAL CONFERENCE ON ADVANCES IN COMMUNICATIONS,
COMPUTING & ELECTRONIC SYSTEMS (ACCES-2022)**

CERTIFICATE OF PARTICIPATION

This is to certify that Prof. / Dr. / Mr. / Mrs./Ms. **Santosh kumar pentakota** from **Avanthi institute of engineering and technology** Participated / Presented paper entitled **BER performance of various digital modulation schemes in three user NOMA using SIC under Rayleigh fading channel** in International Conference Advances in Communications, Computing & Electronic Systems (ACCES-2022), for the event during 6th - 7th May 2022, AIET, Vizianagaram, A.P., India.

NLL5AM-CE000134

S B Goyal

CITY University

(Dr. S.B. Goyal)



AIET

(Dr. S.N.V. Ganesh)

**INTERNATIONAL CONFERENCE ON ADVANCES IN COMMUNICATIONS,
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This is to certify that Prof. / Dr. / Mr. / Mrs./Ms. **SURIBABU KOYYA** from **Avanthi Institute of Engineering and Technology, Tagarapuvalasa, Vizianagaram** Participated / Presented paper entitled **Stastical Features Based Selfie Sign Language Recognition using ANN Classifier** in International Conference Advances in Communications, Computing & Electronic Systems (ACCES-2022), for the event during 6th - 7th May 2022, AIET, Vizianagaram, A.P., India.

S B Goyal

CITY University
(Dr. S.B. Goyal)

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AIET
(Dr. S.N.V. Ganesh)



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Madhurawada, Visakhapatnam- 530048



Certificate of Participation

This is to certify that Mr K.SYAMALA
of AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY has participated in
a five day online workshop on "VLSI Design Using EDA Tools", Organized by department of
ECE, Gayatri Vidya Parishad College of Engineering(Autonomous) in association with Apply
Volt and IETE Visakhapatnam Centre during April 18th - 22nd, 2022.

V. Leela Rani

Dr.V.Leela Rani

Coordinator

N. Deepika Rani

Prof.N.Deepika Rani

Convener & H.O.D,ECE

P. Rajesh Kumar

Prof.P.Rajesh Kumar

Hon'Secretary, IETE Visakhapatnam Centre



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Madhurawada, Visakhapatnam- 530048



Certificate of Participation

This is to certify that Mr **K.AVINASH KUMAR**
of AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY has participated in
a five day online workshop on "VLSI Design Using EDA Tools", Organized by department of
ECE, Gayatri Vidya Parishad College of Engineering(Autonomous) in association with Apply
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V. Leela Rani

Dr.V.Leela Rani

Coordinator

N. Deepika Rani

Prof.N.Deepika Rani

Convener & H.O.D,ECE

P. Rajesh Kumar

Prof.P.Rajesh Kumar

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Certificate of Participation

This is to certify that Mr **K.SWETHA**
of AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY has participated in
a five day online workshop on "VLSI Design Using EDA Tools", Organized by department of
ECE, Gayatri Vidya Parishad College of Engineering(Autonomous) in association with Apply
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V. Leela Rani

Dr.V.Leela Rani

Coordinator

N. Deepika Rani

Prof.N.Deepika Rani

Convener & H.O.D,ECE

P. Rajesh Kumar

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Certificate of Participation

This is to certify that Mr **S.SANTHOSHI BHAVANI**
of **AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY** has participated in
a five day online workshop on "VLSI Design Using EDA Tools", Organized by department of
ECE, Gayatri Vidya Parishad College of Engineering(Autonomous) in association with Apply
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V. Leela Rani

Dr.V.Leela Rani

Coordinator

N. Deepika Rani

Prof.N.Deepika Rani

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Certificate of Participation

This is to certify that Mr P.SARASWATHI
of AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY has participated in
a five day online workshop on "VLSI Design Using EDA Tools", Organized by department of
ECE, Gayatri Vidya Parishad College of Engineering(Autonomous) in association with Apply
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V. Leela Rani

Dr.V.Leela Rani
Coordinator

N. Deepika Rani

Prof.N.Deepika Rani
Convener & H.O.D,ECE

P. Rajesh Kumar

Prof.P.Rajesh Kumar
Hon'Secretary, IETE Visakhapatnam Centre



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Certificate of Participation

This is to certify that Mr SHALEMU RAJU MATTA
of AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY has participated in
a five day online workshop on "VLSI Design Using EDA Tools", Organized by department of
ECE, Gayatri Vidya Parishad College of Engineering(Autonomous) in association with Apply
Volt and IETE Visakhapatnam Centre during April 18th - 22nd, 2022.



Dr.V.Leela Rani
Coordinator



Prof.N.Deepika Rani
Convener & H.O.D,ECE



Prof.P.Rajesh Kumar
Hon'Secretary, IETE Visakhapatnam Centre



GANDHI INSTITUTE OF TECHNOLOGY AND MANAGEMENT(GITAM)
DEPARTMENT OF MATHEMATICS
SCHOOL OF SCIENCE, GITAM, BENGALURU, INDIA

Certificate of Participation

This is to certify that *Golagani Chinna Rao*, Assistant Professor, Department of Mathematics from *Avanthi Institute of Engineering & Technology, India* has participated in the *Five Days e-Workshop on LaTeX*, organized by the Department of Mathematics, School of Science, GITAM, Bengaluru, India, held from 5th to 9th July 2021.

Dr. B. Venkateswarlu
Convenor

Prof. Atul Kumar
Principal



GANDHI INSTITUTE OF TECHNOLOGY AND MANAGEMENT (GITAM)
DEPARTMENT OF MATHEMATICS
SCHOOL OF SCIENCE, GITAM, BENGALURU, INDIA

Certificate of Participation

This is to certify that *Mr Gondu chinnayya*, *Asst professor, Department of Mathematics* from *Avanthi Engineering college, India* has participated in the *Five Days e-Workshop on LaTeX*, organized by the Department of Mathematics, School of Science, GITAM, Bengaluru, India, held from 5th to 9th July 2021.

Dr. B. Venkateswarlu
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Prof. Atul Kumar
Principal



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DEPARTMENT OF MATHEMATICS
SCHOOL OF SCIENCE, GITAM, BENGALURU, INDIA

Certificate of Participation

This is to certify that *K T Daniel Mohan*, Assistant Professor, Department of Mathematics Department from *Avanthi Institute of Engineering and Technology, India* has participated in the *Five Days e-Workshop on LaTeX*, organized by the Department of Mathematics, School of Science, GITAM, Bengaluru, India, held from 5th to 9th July 2021.

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ADIKAVI NANNAYA UNIVERSITY

UNIVERSITY COLLEGE OF ENGINEERING

RAJAMAHENDRAVARAM

DEPARTMENT OF SCIENCE & HUMANITIES

A Two-Day National Webinar on
Emerging Trends in Mathematical Sciences and Engineering Applications
6 & 7 January, 2021

Certificate of Participation

This is to certify that GONDU.CHINNAYYA
from Avanthi engineering and technology has
attended the Two-Day National Webinar on ***“Emerging Trends in Mathematical Sciences
and Engineering Applications (NEMSEA 2021)”***, held on 6th & 7th January 2021 organized
by the Department of Science and Humanities, University College of Engineering.

Mr M Balakrishna
Course Coordinator

Dr G Venkata Rao
Convener

Dr V Persis
Principal, UCE



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CERTIFICATE OF PARTICIPATION

This certificate is presented to :

VAMSI MUDEDLA MADHU

for participating in a one week online FDP on “Artificial Intelligence/Machine Learning for Mechanical Engineering Problems” during 21st -26th March 2022 organized by the Department of Mechanical Engineering.

Mr. B. Satya Krishna
Coordinator

Dr. Ch. Hari Krishna
Convener & HOD



Dr. P. Srinivasa Raju
Vice Principal

Dr. G. Srinivasa Rao
Principal



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K SARIKA

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Coordinator

Dr. Ch. Hari Krishna
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This certificate is presented to :

SUNIL KUMAR JENA

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Coordinator

Dr. Ch. Hari Krishna
Convener & HOD



Dr. P. Srinivasa Raju
Vice Principial

Dr. G. Srinivasa Rao
Principal



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P RAMA KRISHNA

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Coordinator

Dr. Ch. Hari Krishna
Convener & HOD



Dr. P. Srinivasa Raju
Vice Principal

Dr. G. Srinivasa Rao
Principal



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CERTIFICATE OF PARTICIPATION

This certificate is presented to :

VENKATA NAIDU BANKURU

for participating in a one week online FDP on “Artificial Intelligence/Machine Learning for Mechanical Engineering Problems” during 21st -26th March 2022 organized by the Department of Mechanical Engineering.

Mr. B. Satya Krishna
Coordinator

Dr. Ch. Hari Krishna
Convener & HOD



Dr. P. Srinivasa Raju
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Online Faculty Development Programme on Quantum Computing

September 27 - October 08, 2021

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This is to certify that **N Sakitha Sri**
of **Avanthi Institute of Engineering and Technology**
has successfully completed, online Faculty Development Programme on *Quantum Computing*
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September 27th - October 08th, 2021. This programme is endorsed by AICTE/UGC.



Gaurav Trivedi

Gaurav Trivedi
Joint-Principal
Coordinator



J. P. Singh
Joint-Principal
Coordinator



M. P. Singh
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Kusum Bharti
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Gaurav Trivedi

Gaurav Trivedi
Joint-Principal
Coordinator



J. P. Singh
Joint-Principal
Coordinator



M. P. Singh
Joint-Principal
Coordinator



Kusum Bharti
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Kanupriya S.
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QC-2021-IITDMJ-FDP-115



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Gaurav Trivedi

Gaurav Trivedi
Joint-Principal
Coordinator



J. P. Singh

J. P. Singh
Joint-Principal
Coordinator



M. P. Singh

M. P. Singh
Joint-Principal
Coordinator



Kusum Bharti

Kusum Bharti
Joint-Principal
Coordinator



Kanupriya S.

Kanupriya S.
Joint-Principal
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Pilli Emmanuel S.

Pilli Emmanuel S.
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Gaurav Trivedi

Gaurav Trivedi
Joint-Principal
Coordinator



J. P. Singh

J. P. Singh
Joint-Principal
Coordinator



M. P. Singh

M. P. Singh
Joint-Principal
Coordinator



Kusum Bharti

Kusum Bharti
Joint-Principal
Coordinator



Kanupriya S.

Kanupriya S.
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Coordinator



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5-DAYS ONLINE FACULTY DEVELOPMENT PROGRAM ON

EMERGING TECHNOLOGIES IN ARTIFICIAL INTELLIGENCE,
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17- 21 JULY, 2021

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Mr. Sameer Saxena
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**Department of Computer Science and Engineering &
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Dr. V. P. Gladis Prabhakarathi
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Dr. R. Srinivasan
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This is to certify that Dr. /Mr. /Ms. /Miss. **Payala Aruna** Assistant Professor
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This certificate is presented to :

P ANIL KUMAR

for participating in a one week online FDP on "Artificial Intelligence/Machine Learning for Mechanical Engineering Problems" during 21st -26th March 2022 organized by the Department of Mechanical Engineering.

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This is to certify that

Mrs. K.Syamala, Associate Professor

AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

has participated in a Three Day Faculty Development Programme on

" Recent advances in IoT and Machine Learning: Application and Hands-On "

Organized by Department of Electronics and Communication Engineering,
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during 16th - 18th December 2021.

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V. Bhargavi
HOD

Dr. V. Sridhar Patnaik
PRINCIPAL



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This is Certified that **Mr/Mrs/Miss:** I. Santosh Kumar
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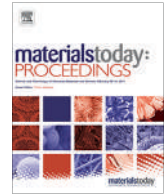
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Enhanced physical properties of ZEO thin films for device applications

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ABSTRACT

Transparent conducting Eu doped ZnO thin films are deposited on glass substrates by spray pyrolysis technique. The effect of Eu doping on surface morphology, structural and electrical properties of ZnO thin films are studied. The structural analysis reveal that the films are crystallized in the wurtzite phase with preferred orientation along (002) plane. EDX and elemental mapping results establish the presence and distribution of Eu, Zn and O for the ZEO thin films. The Hall measurement results demonstrate that the Eu doped ZnO (ZEO) films have n-type conduction. The n-type ZEO thin films with comparatively low resistivity of $2.93 \times 10^{-3} \Omega \text{ cm}$ and relatively high carrier concentration of $5.18 \times 10^{19} \text{ cm}^{-3}$ are obtained at doping level of 2 at.%. The mobility values of ZEO thin films decrease from $28.4 \text{ cm}^2 \text{ V}^{-1} \text{ s}^{-1}$ to $1.02 \text{ cm}^2 \text{ V}^{-1} \text{ s}^{-1}$ with increase of dopant concentration.

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1. Introduction

Rare earth (RE)-doped semiconductors have been intensively studied for their potential use in optoelectronic devices like visible (blue, green, and red) and infrared luminescent devices [1–3]. Zinc oxide (ZnO) is a II–VI semiconductor with a hexagonal wurtzite structure. Further, it is an inexpensive n-type semiconductor with a wide band gap of 3.37 eV [4,5]. This property makes it good candidate as host materials for the visible and infrared emission of various rare-earth ions. On the other hand, rare-earth ions are good luminescence centers due to their narrow and intense emission lines originating from 4f intrashell transition [6]. Moreover, rare-earth complexes have the ability to absorb light at shorter wavelength and emit at a longer wavelength [7,8]. Due to this reason, trivalent rare earth ions (RE^{3+}) doped ZnO have been studied extensively during the last two decades. Eu^{3+} is one of the trivalent rare earth ions which have been doped in ZnO to achieve efficient luminescent and transparent conducting oxide (TCO) properties [6,9].

When Eu is incorporated into the ZnO lattice, Eu^{3+} replaces Zn^{2+} ion in the ZnO crystal lattice resulting in free electrons that contribute to the electric conduction. So, the increase in the electrical conductivity is due to the presence of free carriers introduced by

Eu dopant. Eu doped ZnO (ZnO:Eu) thin films have been deposited by spray pyrolysis technique [10]. The grown films have been characterized by various characterizing techniques. This chapter investigates to study the effect of Eu dopant concentration on the structural, electrical properties and chemical composition of ZnO thin films. Recently Hasabeldaim et al. [11] studied structural, optical and photoluminescence properties of Eu doped ZnO thin film prepared by spin coating. Sundaram et al. [12] described preparation of Eu-doped Cu_2O thin films using different concentrations by SILAR and their Heterojunction property with ZnO.

2. Materials and methods

For depositing the europium doped ZnO thin films, $\text{Zn}(\text{CH}_3\text{COO})_2 \cdot 2\text{H}_2\text{O}$ and $\text{Eu}(\text{NO}_3)_3 \cdot 6\text{H}_2\text{O}$ are chosen as the sources of zinc and europium, respectively, for monodoped ZnO films, the spray solution is prepared with 0.1 M $\text{Zn}(\text{CH}_3\text{COO})_2 \cdot 2\text{H}_2\text{O}$ (Sigma-Aldrich, 99.5%, Germany) and $\text{Eu}(\text{NO}_3)_3 \cdot 6\text{H}_2\text{O}$ (Sigma-Aldrich, 99.9%, Germany) in the 100 ml mixture of deionized water and ethanol (Merck, 99.9%, Germany) at room temperature. A small amount of acetic acid (Merck, 99.9%, Germany) is added into the solution to avoid forming milky precipitate of hydroxides. The europium concentration is varied from 1 to 10 at.% and the total concentration of the solution is maintained at 0.1 M. The spray nozzle is at a distance of 10 cm from the substrate during deposition [10,13]. The spray deposition is carried out at a

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