



ADITYA ENGINEERING COLLEGE

An Autonomous Institution

Approved by AICTE • Permanently Affiliated to JNTUK • Accredited by NAAC with 'A' Grade

Recognised by UGC under sections 2(f) and 12(B) of UGC Act, 1956

Aditya Nagar, ADB Road, Surampalem - 533437, Near Kakinada, E.G.Dt., Ph:99498 76662

Meeting Minutes of Research Advisory Committee for A.Y.: 2021-22



ADITYA ENGINEERING COLLEGE

An Autonomous Institution

Approved by AICTE • Permanently Affiliated to JNTUK • Accredited by NAAC with 'A' Grade

Recognised by UGC under sections 2(f) and 12(B) of UGC Act, 1956

Aditya Nagar, ADB Road, Surampalem - 533437, Near Kakinada, E.G.Dt., Ph:99498 76662

MINUTES OF RESEARCH ADVISORY COMMITTEE MEETING HELD

ON 10-02-2022

The meeting of the research advisory committee of Aditya Engineering College (A), Surampalem was held on 10-02-2022 at 3.00 PM in the Conference Hall, Cotton bhavan. Dr. M Sreenivasa Reddy, Chairman presided over the meeting.

AGENDA

1. To plan for organizing the international conferences in CSE/ECE departments.
2. To encourage collaborative research with other colleges or universities.
3. Approval of seed money to the faculty members
4. Any other items with the approval of the Chairman.

DISCUSSION & RESOLUTIONS

Chairman Dr. M. Sreenivasa Reddy welcomed all members

Agenda 1: To discuss organizing the international conferences in CSE/ECE departments.

Discussion: Committee members discussed about organizing the conference. They have welcomed the proposals from both departments like CSE and ECE. Title finalized is "Recent Developments in Electronics and Communication Systems". Members proposed to get approval from IOS Press and AIP. Members also suggested to contact some Journal.

Agenda 2: To encourage collaborative research with other colleges or universities.

Discussion: To encourage our faculty members on research in all aspects, our Committee members discussed and resolved to motivate our faculty members toward collaborative research and interdisciplinary research.

Agenda 3: Approval of seed money to the faculty members

Discussion: Committee Members have approved to grant the seed money to the following faculty.

List of the faculty who have been awarded Seed Money

S. NO	Name of the teacher provided with seed money	Name of the Department	The amount of seed money (INR in Lakhs)
1	Dr. K V S R Murthy	EEE	0.15
2	Dr. V Srinivasa Rao	EEE	0.14

3	Mr. J Pavan	EEE	0.25
4	Dr. K. Bapayya Naidu	EEE	0.28
5	Mrs.B.V.V.L. K. Bharathi	EEE	0.28
6	Mr.Ch. Amarendra	EEE	0.36
7	Mr. K. Rambabu	EEE	0.22
8	Mr. I.V. Veeranjanyulu	EEE	0.26
9	Mr. B.S.S.G. Pardhu	EEE	0.34
10	Mr. P.S.D. Bhima Raju	EEE	0.19
11	Mr. N Rajesh	EEE	0.245
12	Mr. CH. B. A. Raju	EEE	0.19
13	Dr. Soham Dutta	EEE	0.28
14	Dr. M Aswini Kumar	EEE	0.22
15	Dr. Sajjan Kumar	EEE	0.28
16	Mr. Ch. Govinda	EEE	0.33
17	Mr. B Veera Narayana	EEE	0.27
18	Mr. K. Lakshmi Kishore	ME	0.1
19	Mr. S D V V S Bhimesh Reddy	ME	0.1
20	Mrs. V Pragna	ME	0.15
21	Mr. D Ravi Teja	ME	0.15
22	Mr. K Rajendra	ME	0.12
23	Mrs. M Anusha	ME	0.15
24	Dr. N Radha	ECE	0.06
25	Dr. N R Dhineshbabu	ECE	0.16
26	Dr. M Hari Kishore	ECE	0.1
27	Dr. Babu L P Meena Ketan	ECE	0.13
28	Mr. M Neeladri	ECE	0.06
29	Mr. N Venkatesh	ECE	0.12
30	Mr. G Ajay Sankar	ECE	0.12
31	Dr. Yashu Swami	ECE	0.4
32	Dr. Sabat Santoshkumar	ECE	0.1
33	Dr. Jagatpati Raiguru	ECE	0.1
34	Mr. S.V.V.D. Jagadeesh	IT	0.3
35	Mr. A.K. Chakravathy	IT	0.495
36	Mr. K Arun Bhaskar	IT	0.278

37	Er. B. Krishna Kanth	Ag. E	0.265
38	Er. J. Pavani	Ag. E	0.2
39	Dr. K. Bapayya Naidu	EEE	0.28
40	Mrs.B.V.V.L. K. Bharathi	EEE	0.28
41	Mr.Ch. Amarendra	EEE	0.36
42	Mr. K. Rambabu	EEE	0.22
43	Mr. I.V. Veeranjanyulu	EEE	0.26
44	Mr. B.S.S.G. Pardhu	EEE	0.34
45	Mr. P.S.D. Bhima Raju	EEE	0.19
46	Mr. N Rajesh	EEE	0.245
47	Mr. CH. B. A. Raju	EEE	0.19
48	Dr. Soham Dutta	EEE	0.28
49	Dr. M Aswini Kumar	EEE	0.22
50	Dr. Sajjan Kumar	EEE	0.28
51	Mr. Ch. Govinda	EEE	0.33
52	Mr. B Veera Narayana	EEE	0.27
Total Amount			11.688

Agenda 4: Any other items with the approval of the Chairman.

Discussion:

The Chairman presented the details of the paper publications by the faculty after the last meeting.

1. S.Anandha Kumar, "Understanding the microstructure, mineralogical and adsorption characteristics of guar gum blended soil as a liner material", Environmental Monitoring and Assessment, Vol.193, No.12, Dec 2021.

[IF 2.51, SJR 0.59, H- Index 109]

2. K.Bapayya Naidu, "Diminishing Energy Consumption Cost and Optimal Energy Management of Photovoltaic Aided Electric Vehicle (PV-EV) By GFO-VITG Approach", Energy Sources, Part A: Recovery, Utilization and Environmental Effects, Dec 2021.

[IF 3.4, SJR 0.48, H- Index 45]

3. S.Jhansi Lakshmi, "Functional, thermal, pasting, and rheological properties of gluten-free maize composite flour: Effect of moth bean flour and hydrocolloid addition", Journal of Food Processing and Preservation, Vol.45, No.12, Dec 2021.

[IF 2.19, SJR 0.51, H- Index 48]

4. B.Ramamohana Reddy, "Influence of steel and PP fibers on mechanical and microstructural properties of fly ash-GGBFS based geopolymer composites", Ceramics International, Dec 2021.

[IF 4.57, SJR 0.94, H- Index 110]

5. N.R.Dhineshababu, "Preparation of freestanding films from SWCNT/PANI nanocomposites using different blending techniques and characterization of their EMI shielding effectiveness in X-band", Phosphorus, Sulfur and Silicon and the Related Elements, Jan 2022.

[IF 1.082, SJR 0.23, H- Index 42]

6. P.S.Ranjit, "Direct utilization of preheated deep fried oil in an indirect injection compression ignition engine with waste heat recovery framework", Energy, Vol.242, Jan 2022.

[IF 7, SJR 1.96, H- Index 193]

7. Elumalai. P.V, "Effects of on MnO₂ nanoparticles behavior of a sardine oil methyl ester operated in thermal barrier coated engine", Journal of Thermal Analysis and Calorimetry, Jan 2022.

[IF 4.7, SJR 0.52, H- Index 92]

8. Shivam Singh, "Antimonene-gold based twin-core SPR sensor with a side-polished semi-arc groove dual sensing channel: an investigation with 2D material", Optical and Quantum Electronics, Vol.54., No.2, Jan 2022.

[IF 2.084, SJR 0.4, H- Index 59]

9. V.Satyanarayana, "A novel compact fractal UWB antenna with dual band notched characteristics", Analog Integrated Circuits and Signal Processing, Jan 2022,

[IF 1.337, SJR 0.24, H- Index 49]

10. S.B.G.Tilak Babu, "An optimized technique for copy-move forgery localization using statistical features", ICT Express, Jan 2022.

[IF 4.317, SJR 0.73, H- Index 22]

11. S.Ramasree, "Performance evaluation of artificial neural networks in sustainable modelling biodiesel synthesis", Sustainable Energy Technologies and Assessments, Vol.52, Feb 2022.

[IF 5.353, SJR 1.04, H- Index 39]

12. S.Prasanth Vaidya, "Adaptive tamper detection watermarking scheme for medical images in transform domain" Multimedia Tools and Applications, Feb 2022.

[IF 2.757, SJR 0.44, H- Index

13. S.Prasanth Vaidya, "Fingerprint-based robust medical image watermarking in hybrid transform", Visual Computer, Feb 2022.

[IF 2.601, SJR 0.32, H- Index
67]

14. Santosh Kumar Sabat, "Mobile FD-CR with High-Speed VTFET CMOS SOI Switch Under Channel Estimation Error", Silicon Journal, Feb 2022.

[IF 2.67, SJR 0.42, H- Index 26]

15. G.Vishnu Vardhan, "Transmit antenna selection strategies for spectrally efficient spatial modulation techniques", International Journal of Communication Systems, Feb 2022

[IF 2.047, SJR 0.34, H- Index 49]

16. A. Lakshman Rao, "An Efficient Covid19 Epidemic Analysis and Prediction Model Using Machine Learning Algorithms", International journal of online and biomedical engineering, Vol.17, No.11, Dec 2021.

[SJR 0.18, H- Index 8]

17. Sandip Kunar, "WEDM Machining Performance of Al Based Metal Matrix Composites Reinforced with Rice Husk Ash", Materials Science Forum, Vol.1048, Jan 2022.

[SJR 0.19, H- Index 78]

18. B.Ramamohana Reddy, "Effect of slag on strength, durability and microstructural characteristics of fly ash-based geopolymers concrete", Journal of Building Pathology and Rehabilitation, Vol. 7, No. 1, Jan 2022

19. Dangeti, Satya Subrahmanya Ajay, Chaitanya Kishore Patnaik Sekharamanthy, Venkata Kowshik Bayanti, BA Raju Ch, KVS Ramachandra Murthy, and Abhilash Tirupathi. "A cascaded converter using hybrid cells and H-bridge structure," Bulletin of Electrical Engineering and Informatics, 10, no. 6 (2021): 2972-2979.

[SJR 0.25, H- Index 12]

20. Siva Pachipala, Amarsrinadh Guda, Mentimi Sandeep Babu, Veeranarayana B., K. V. S. Ramachandra Murthy, Abhilash Tirupathi, "A series-connected switched source and an H-bridge based multilevel inverter", Indonesian Journal of Electrical Engineering and Computer Science, Vol 24, No 2, (2021), 673-679.

[SJR 0.24, H- Index 17]

21. Nunna, Sai Divya Sindhura, Akhilesh Ketha, Srivastav Sai Goud Padamat, K. Rambabu, Ujwala Anil Kshirsagar, and Abhilash Tirupathi. "A single-phase

simplified DC-AC converter using DC-link capacitors and an H-bridge." Bulletin of Electrical Engineering and Informatics 10, no. 6 (2021): 2964-2971.

[SJIR 0.25, H- Index 12]

22. G.Sridevi, "A Qualitative Report on Diffusion based Image Inpainting Models", International Journal of Computing and Digital Systems, Vol.11, No1, Feb 2022.

[SJIR 0.15, H- Index 6]

23. T.Ramareddy, "Proposing a reliable method of securing and verifying the credentials of graduates through blockchain", Eurasip Journal on Information Security, Vol.7, No.1, Dec 2021.

[SJIR 0.55, H- Index 25]

24. A. Lakshman Rao, "Android Malware Detection with Deep Learning using RNN from Opcode Sequences", International Journal of Interactive Mobile Technologies, Vol.16, No.1, Feb-2022.

[SJIR 0.32, H- Index 16]

25. S. Prasanth Vaida, "Adaptive Blind Color Image Watermarking Approach using BRISK Features Based on CT and CNN", IEEE Conference on IoT for Rural healthcare (CIRH 2021), Vignana's University, 16-18 Dec 2021.

26. Satyajeet Parida, "Prediction of Blast Induced Ground Vibration by Artificial neural Network", International Conference on Emerging Research in Civil, Aeronautical and Mechanical Engineering (ERCAM 2021), Nitte Meenakshi Institute of Technology (NMIT), 16-17 Dec 2021.

27. S.Rama Sree, "A Comparative study on a Disease Prediction System using Machine Learning Algorithms", 3rd International Conference on Artificial Intelligence and Speech Technology, Indira Gandhi Delhi university, 12-13 Nov 2021.

28. B.R.S.S.Raju, "Identification of Brain Tumor with the help of Convolution Neural Networks", 3rd International Conference on Multidisciplinary Innovation in Academic Research (ICMIAR 2021), Institute For Engineering Research and Publication, 25-26 Nov 2021.

29. Yashu Swami, "Analysis of a proposed efficient Nano-DG-TFET for Ultra Low Power Applications", International Conference on Nanotechnology and Engineering Material Science and Engineering, National Cheng kung University, Taiwan, 15-16 Nov 2021.

30. M.Zubairuddin, "Thermal analysis of laser welding of grade 91 steel", International Conference on Engineering Material, Metallurgy and Manufacturing, SSN College of Engineering, Chennai, 16-17 Dec 2021.

31. M.Kalyan Ram, "A Comprehensive Analysis of Prediction of P-Glycoprotein in Tumour Cells, Breast Cancer and Ovarian Cancer using Machine Learning", 5th International Conference on Electronics, Communication and Aerospace Technology (ICECA-2021), RVS Technical Campus, Coimbatore, 2-4 Dec 2021.
32. A.S.S.Sitaram Murthy, "Performance and Emission Characteristics of lemon seed oil blended with hydrogen in CI Engine", International Conference on Alternative Fuels and Electrical Vehicles, Alard College of Engineering, Pune, 9-10 Dec 2021.
33. S.Anjani Devi, "Experimental Investigation on Neem oil water emulsion in Thermal Barrier Coating Engine", International Conference on Alternative Fuels and Electrical Vehicles, Alard College of Engineering, Pune, 9-10 Dec 2021.
34. Sartaj Patel, "Performance and Emission Characteristics of Palm oil blended with hydrogen in CI Engine", International Conference on Alternative Fuels and Electrical Vehicles, Alard College of Engineering, Pune, 9-10 Dec 2021.
35. S.B.G.Tilak Babu, "A Review on Multi-Model Medical Image Fusion Methods", International Conference on Advancement in Computation and Computer Technologies(ICACCT-2021), Chandigarh university, Gharuan, 30-31 Oct 2021.
36. S.B.G.Tilak Babu, "IoT Assisted RFID based Toll Booth Handling System using Systematic Scanning", The 2nd International Conference on Emerging Trends in Materials, Computing and Communication Technologies (ICETMCCT-2021), Annai Vailankanni College, 9-10 Dec 2021.
37. G.Aparna, "Smart Attendance with Real Time Face Recognition", 6th International Conference on Inventive Systems and Control (ICISC-2022), JCT College of Engineering, 6-7, Jan 2022.
38. M.Kalyanaram, "Real-Time Implementation of CNN Based Face Mask Detection: A Method to Diminish the Risk of Covid-19", 3rd International Conference on Advances in Distributed Computing and Machine Learning, NIT-Warangal, 15-16, Jan 2022.
39. A.Phani Sridhar, "Big data in Internet of Things Health Care: A Bibliometric Survey", International Conference on Research and Innovation in Science, Technology and management (ICRISTM-22), BEST IU, Anantapur, 7-8 Jan 2022.
40. Varalakshmi, Koneti, BVVL Kala Bharathi, and Tata Himaja. "Study of Soft-Starter based Induction Generator for Wind Energy Conversion System," 2021 Asian Conference on Innovation in Technology (ASIANCON), pp. 1-4. IEEE, 2021.

41. Adireddy, Ramesh, KuncheNanibabu, M. Ravindra, and KVS Ramachandra Murthy. "Design of sliding mode controller for induction motor drive," Materials Today: Proceedings (2021), ICDM-2021, New Delhi.
42. Adireddy, Ramesh, Boddu Sai Deepak, M. Ravindra, and KVS Ramachandra Murthy. "Study of different techniques to mitigate temporary overvoltage in photovoltaic system." Materials Today: Proceedings (2021), ICDM-2021, New Delhi.
43. Adireddy, Ramesh, KNG Arun Pratap, Tata Himaja, and KVS Ramachandra Murthy. "Circuit analysis and modelling of dual active bridge bidirectional converter," Materials Today: Proceedings (2021), ICDM-2021, New Delhi.
44. Raju, G. Siva Naga, G. Jyothirmmai, and Sanjeev Kumar. "Design and analysis simple microstrip low-pass filter for wireless application," Materials Today: Proceedings (2021) Volume 51, Part 1, Pages 1017-1020.
45. Aktharun, S. Bhanu, and M. S. R. Sekhar. "Design of unmanned aerial vehicles for various wireless applications." Materials Today: Proceedings (2021), CAME-2021, Volume 51, Part 1, Pages 1115-1119.
46. Padma, Uppalapati, Samudrala Jagadish, and Mahesh K. Singh. "Recognition of plant's leaf infection by image processing approach." Materials Today: Proceedings (2021), CMAE-2021, Volume 51, Part 1, 2022, Pages 914-917.
47. Sridhar, A. Phani, Lakshmi PV, and T. Krishna Mohana. "Wearable Devices in Healthcare 4.0: Effects, Trends and Challenges." (2020), ICICNIS 2020.
48. Jyothi, Mangam Surya, K. L. V. Prasad, and Sanjeev Kumar. "Textile UWB MIMO Antenna for Wireless Applications." In 2021 Asian Conference on Innovation in Technology (ASIANCON), pp. 1-4. IEEE, 2021.
49. Kanchana, V., Surendra Nath, and Mahesh K. Singh. "A study of internet of things oriented smart medical systems." Materials Today: Proceedings (2021), CMAE-2021, Volume 51, Part 1, 2022, Pages 961-964.
50. Mouli, D. Chandra, G. Varun Kumar, S. V. Kiran, and Sanjeev Kumar. "Video Retrieval Queries of Large Scale Images: An Efficient Approach," 2021 6th International Conference on Signal Processing, Computing and Control (ISPCC), pp. 247-250. IEEE, 2021.
51. Amrutha, Penkey, K. L. V. Prasad, and Sanjeev Kumar. "Highly Isolated Fork-Shaped MIMO Antenna for 5G Application," 2021 Asian Conference on Innovation in Technology (ASIANCON), pp. 1-4. IEEE, 2021.

52. Nandanay, M. D., SBG Tilak Babu, and Sanjeev Kumar. "2-Port MIMO Antenna Design for 5G Communications," 2021 Asian Conference on Innovation in Technology (ASIANCON), pp. 1-4. IEEE, 2021.
53. Anushka, R. L., Samudraġa Jagadish, V. Satyanarayana, and Mahesh K. Singh. "Lens less Cameras for Face Detection and Verification." In 2021 6th International Conference on Signal Processing, Computing and Control (ISPCC), pp. 242-246. IEEE, 2021.
54. Prasanna, GV Sai, K. Pavani, and Mahesh Kumar Singh. "Spliced images detection by using Viola-Jones algorithms method." Materials Today: Proceedings (2021), CMAE- 2021. Volume 51, Part 1, Pages 924-927.
55. Punyavathi, G., M. Neeladri, and Mahesh K. Singh. "Vehicle tracking and detection techniques using IoT." Materials Today: Proceedings (2021), CMAE-2021, Volume 51, Part 1, Pages 909-913.
56. Balaji, V. Nithin, P. Bala Srinivas, and Mahesh K. Singh. "Neuromorphic advancements architecture design and its implementations technique." Materials Today: Proceedings (2021), CMAE-2021, Volume 51, Part 1, Pages 850-853.
57. Jyothi, Karri Divya, M. S. R. Sekhar, and Sanjeev Kumar. "Applications of Statistical Machine Learning Algorithms in Agriculture Management Processes." In 2021 6th International Conference on Signal Processing, Computing and Control (ISPCC), pp. 237-241. IEEE, 2021.
58. Satya, P. Mohana, Samudrala Jagadish, V. Satyanarayana, and Mahesh K. Singh. "Stripe Noise Removal from Remote Sensing Images," 2021 6th International Conference on Signal Processing, Computing and Control (ISPCC), pp. 233-236. IEEE, 2021.
59. M.Venkatesh, "An Efficient IoT Security Solution using Deep Learning Mechanisms", DST SERB Sponsored International Conference on Data Science, Intelligent Computing and Cyber Scurity, Sri Vidyanikethan Tirupathi, 29-30, Dec 2021.
60. Zeeshan Ahmad, "Comparision of different machine learning methods for predictive modelling of Al₂O₃-CO₂ nanofluid transport properties", International Conference on Futuristic Advancements in Materials, Manufacturing and Thermal Sciences. Institute of Infrastructure Technology Research and Management, Ahmedabad, 20-21, Jan 2022.
61. Zeeshan Ahmad, "Effect of temperature, volume fraction and nanoparticle diameter on thermal conductivity and viscosity of Al₂O₃-CO₂ nanofluid", International

Conference on Futuristic Advancements in Materials, Manufacturing and Thermal Sciences. Institute of Infrastructure Technology Research and Management, Ahmedabad, 20-21, Jan 2022.

62. A.Phani Sridhar, "Driving Decision Strategy Using Machine Learning Algorithms for Autonomous Vehicles", 13th International Conference on Advances in Power Electronics and Instrumentation Engineering, Bengaluru, 27-28, Jan 2022
63. Girija Shankar Sahoo, "Extensive Study on Effects of Defects in CZTS/CZTSe Quantum Dots Kesterite Solar Cells", 2021 IEEE 16th Nanotechnology Materials and Devices Conference, NMDC 2021, 12-15 Dec 2021.
64. G. Jyothirmai, "Comparative Analysis of Drowsiness Detection Using Deep Learning Techniques", International Conference on Computer Communication and Informatics, Sri Shakthi College, Coimbatore, 25-27, Jan 2022.
65. G. Jyothirmai, "Performance Analysis of Deep learning Techniques Based Brain Tumor Segmentation", International Conference on Computer Communication and Informatics, Sri Shakthi College, Coimbatore, 25-27, Jan 2022.
66. M.Sandra Carmel Sophia, "Redefining and Envisioning Women's Writing in Literature", A two day National Seminar on Trends, Issues and Challenges in English Language and Literature, Andhra Loyola College, 17-18 Jan 2022.
67. P.Satish, "Effect of Hall currents on MHD two-ionized slip flow between parallel plates in a rotating system", 66th Congress of the Indian Society of Theoretical and Applied Mechanics (ISTAM), VIT-AP University, 3-5 Dec 2021.
68. J. Suma, "Culture Conflict in Attia Hosain's Sunlight on a Broken Column, A two day National Seminar on Trends, Issues and Challenges in English Language and Literature, Andhra Loyola College, 17-18 Jan 2022.
69. M.Sandra Carmel Sophia, "Journey Motif in Anees Jung's Olives from Jericho", LangLit: An International Peer-Reviewed Open Access Journal, Vol.8, No.2, Jan 2022.
70. V.Jayasri Suma, "Appreciation of "Morning Bells" by Jayashree Mohanraj", Journal of Emerging Technologies and Innovative Research, Vol.8, No.7, Jan 2022.

The committee Members have appreciated the faculty for good number of publications.

Published Book/Book Chapters

S.No.	Name of Faculty Member	Name of the Book/ Book Chapters	Name of the Publisher
1	Abhishek Kumar Tripathi	Development and Performance Analysis of Solar Tracking PV Sysems, Book Chapter, PP-135-158	Development and Performance Analysis of Solar Tracking PV Sysems

2	P.V. Elumalai	Effectiveness of Hydrogen and Nanoparticles Addition in Eucalyptus Biofuel for Improving the Performance and Reduction of Emission in CI Engine (Springer Book Chapter)	Energy, Environment, and Sustainability Pages 173 - 191
3	P.V. Elumalai	Hydrogen in Spark Ignition Engines (Springer Book Chapter)	Energy, Environment, and Sustainability Pages 195 - 213

The committee members have appreciated the faculty members and the same has been noted.

The meeting was adjourned by vote of thanks from the chairman at 4.30 PM

K. V. R. S. S.
Convener
Dean (R&D)
 Aditya Engineering College (A)
 Srirampalem