

Annual Report

Period: April 2023 to March 2024

(a) **Research/ Publications/Books/ Chapters/ National Journals/ International Journals/ National/ International Conf/ Patents by Faculty (format as given below)**

SI No	Type of Publication	Reference No. ISBN No. Doc No	Publisher Name	Title	Author	Publication Date
1	Book	ISBN : 979-8-3503-1587-5	IEEE	Proceedings of IEEE International Conference on Security Technology (Compilations of papers presented at ICCST 2023)	Soodamani, Gordon Thomas, CRS Kumar, Soumya	2024
2	eBook	ASIN : B0CFRK8KTC	Amazon Kindle Edition	Augmented Reality and Virtual Reality Workbook	CRS Kumar	2023
3	Article	DOI: https://www.kaggle.com/code/crsuthikshnkumar/generative-ai-essay-crsk	Kaggle Notebooks	Generative Artificial Intelligence: Evolution in last two years	CRS Kumar	2023
4	Article	DOI: https://www.kaggle.com/code/crsuthikshnkumar/gametheory-appln-ml-competition-s-crsk	Kaggle Notebooks	Game Theory Applications in Machine Learning Competitions, Published in Kaggle Notebook	CRS Kumar	2023
5	Article	DOI: https://www.kaggle.com/code/crsuthikshnkumar/ml-appln-computer-vision-crsk	Kaggle Notebooks	Machine Learning Application for Computer Vision, Published in Kaggle Notebook	CRS Kumar	2023
6	Article	DOI: https://www.kaggle.com/code/crsuthikshnkumar/ml-appln-nlp-crsk	Kaggle Notebooks	Machine Learning Application for NLP, Published in Kaggle Notebook	CRS Kumar	2023

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7	Book Chapter	https://doi.org/10.1007/978-981-19-2821-5_66	Springer International Conference, 2023	In: Gupta, D., Khanna, A., Bhattacharyya, S., Hassaniien, A.E., Anand, S., Jaiswal, A. (eds) International Conference on Innovative Computing and Communications. Lecture Notes in Networks and Systems, vol 473. Springer, Singapore.	Patel, C.D., Dhavale, S.V. (2023). Intelligent System for Bi-Modal Recognition of Apparent Personality Traits (iSMART).	2023
8	Full Paper, Conference Proceedings	https://doi.org/10.1007/978-981-99-1414-2_40	ICDMAI 2023 conference, DIAT	In: Sharma, N., Goje, A., Chakrabarti, A., Bruckstein, A.M. (eds) Data Management, Analytics and Innovation. ICDMAI 2023. Lecture Notes in Networks and Systems, vol 662. Springer, Singapore.	Ranjan, A., Dhavale, S., Kumar, S. (2023). YOLO Algorithms for Real-Time Fire Detection.	2023
9	Full Paper, Conference Proceedings	https://doi.org/10.1007/978-981-99-1414-2_27	ICDMAI 2023 conference, DIAT	Shahzeb, M., Dhavale, S., Srikanth, D., Kumar, S. (2023). DCNN-Based Transfer Learning Approaches for Gender Recognition. In: Sharma, N., Goje, A., Chakrabarti, A., Bruckstein, A.M. (eds) Data Management, Analytics and Innovation. ICDMAI 2023. Lecture Notes in Networks and	In: Sharma, N., Goje, A., Chakrabarti, A., Bruckstein, A.M. (eds) Data Management, Analytics and Innovation. ICDMAI 2023. Lecture Notes in Networks and Systems, vol 662. Springer, Singapore.	2023

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				Systems, vol 662. Springer, Singapore		
10	Full Paper, Conference Proceedings	Proceedings will be published.	IEEE 11th Region 10 Humanitarian Technology Conference (R10-HTC) Paper accepted and presented in IEEE International Conference.	Medicinal Plant Species Identification Using AI	Praddhumna Soni, Mrs. Sunita Dhavale, Ms. Swapna Yenishetti, Ms. Lakshmi Panat and Mr. Ganesh Karajkhede	2023
11	Full Paper, Conference Proceedings	doi: 10.1109/R10-HTC57504.2023.10461759	2023 IEEE 11th Region 10 Humanitarian Technology Conference (R10-HTC), Rajkot, India, 2023, pp. 1-6,	"Blockchain Based Decentralized Technology For Internet Naming Systems,"	A. Tamhankar, S. Dhavale, A. Mishra, B. Rajendran and G. Palaniappan,	2023
12	Full Paper, Conference Proceedings	https://doi.org/10.1007/978-981-19-7892-0_1	Springer	Exploiting Video Classification Using Deep Learning Models for Human Activity Recognition. In: Shukla, P.K., Singh, K.P., Tripathi, A.K., Engelbrecht, A. (eds) Computer Vision and Robotics. Algorithms for Intelligent Systems. Springer, Singapore.	Singh, U., Singhal, N.	2023
13	Full Paper, Conference Proceedings	https://doi.org/10.1007/978-981-99-1414-2_13	Springer	Landslide Susceptibility Mapping Using J48 Decision Tree and Its Ensemble Methods for Rishikesh to Gangotri Axis. In: Sharma, N., Goje, A., Chakrabarti, A., Bruckstein, A.M.	Saxena, V., Singh, U., Sinha, L.K	2023

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				(eds) Data Management, Analytics and Innovation. ICDMAI 2023. Lecture Notes in Networks and Systems, vol 662. Springer, Singapore.		
14	Journal	Print: ISSN 1070-6631 Online: ISSN 1089-7666	AIP SCI(E) - IF:4.6	Numerical study of entropy generation in magneto-convective flow of nanofluid in porous enclosure using fractional order non-Darcian model, Physics of Fluids 35, 097142	Deepika Parmar, B. V. Rathish Kumar, S. V. S. S. N. V. G. Krishna Murthy, Sumant Kumar	2023
15	Journal	Print ISSN:1091-028X Online ISSN:1934-0508	Begell House SCI(E) - IF:2.3	Thermo-fluidic convective flow study of hybrid nanofluid in an inverted T-shaped porous enclosure under uniformly acting magnetic field, Journal of Porous Media, 26(8), pp. 75-91	Sumant Kumar, B.V.R. Kumar, S.V.S.S.N.V.G. Krishna Murthy, Deepika Parmar	2023
16	Journal	Print ISSN 2832-8450 Online ISSN 2832-8469	ASME SCI(E) - IF:2.1	Double diffusive convective flow study of a hybrid nanofluid in an inverted T-shaped porous enclosure under the influence of Soret and Dufour parameters. Journal of heat and mass transfer, 145(10), pp. 102501 (12 pages)	Sumant Kumar, B.V.R. Kumar, S.V.S.S.N.V.G. Krishna Murthy	2023
17	Journal	Print ISSN: 1040-7782	Taylor and Francis SCI(E) IF:2.2	Double-diffusive convective flow of hybrid nanofluid in an inverted T-shaped porous	Sumant Kumar, S.V.S.S.N.V.G. Krishna Murthy, B.V.R.	2023

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Sl No	Type of Publication	Reference No. ISBN No. Doc No	Publisher Name	Title	Author	Publication Date
		Online ISSN: 1521-0634		enclosure: - A numerical study Numerical heat transfer: Part A: Applications, pp:1-25	Kumar, Deepika Parmar	
18	Journal	Print ISSN: 1040-7790 Online ISSN: 1521-0626	Taylor and Francis SCI(E) IF:1.1	Numerical simulation of vertical varying circular cylinder for enhancing the convective thermal transport of hybrid nanofluid in an inverted T-shaped porous enclosure Numerical heat transfer: Part B: Fundamentals	Sumant Kumar, B.V. Rathish Kumar, SVSSNVG Krishna Murthy, Deepika Parmar	2023
19	Journal	Print ISSN: 0941-0643 Electronic ISSN: 1433-3058	Springer SCI(E) IF:6.0	ANN based deep collocation method for natural convection in porous media, Neural Computing and Applications	Sumant Kumar, SVSSNVG Krishna Murthy, BV Rathish Kumar	2024
20	Journal	Print ISSN: 1040-7790 Online ISSN: 1521-0626	Taylor and Francis SCI(E) IF:1.1	Bejan's heatline and multphysics analysis of double diffusive free convection in a doubly stratified non-Darcian porous enclosure with heat generation, Numerical Heat Transfer, Part B: Fundamentals, 83:5, 243-275	Vinay Kumar, S.V.S.S.N.V.G. Krishna Murthy, B. V. Rathish Kumar,	2023
21	Journal	DOI: https://doi.org/10.31224/3420	Engineering Archive(Engrxiv.org)	No Free Money Theorem for ML application for Stock Market Prediction	CRS Kumar	2023
22	Journal	DOI: https://doi.org/10.31224/3577	Engineering Archive(Engrxiv.org)	Vedic Computing: A Computing Discipline inspired by Vedic Mathematics	CRS Kumar	2024

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23	Journal	DOI: https://doi.org/10.31224/3574	Engineering Archive(Engrxiv.org)	Applications of Vedic Mathematics for Machine Learning	CRS Kumar	2024
24	Journal	DOI: https://doi.org/10.31224/3583	Engineering Archive (Engrxiv.org)	Applications of Vedic Mathematics to Cryptography	CRS Kumar	2024
25	Journal	62(1), 250-289. https://doi.org/10.1177/07356331231200701 Impact Factor 4.8	A Systematic Review. Journal SSCI (Social Science Citation) Indexed	Determinants of Technological Interventionsfor Children With Autism -	Hasan, N., & Nene, M. J.	2023
26	Full Paper, Conference Proceedings	1573-7721 https://doi.org/10.1007/s11042-023-17340-3	Springer Multimedia Tools and Applications	Detection of local motion blurred/non-blurred regions in an image	B R Kapuriya, Debasish Pradhan, and R Sharma,	2023
27	Journal	1865-2085 https://doi.org/10.1007/s12190-024-01992-x	Springer Journal of Applied Mathematics and Computing.	On the finite difference method with penalty for numerical solution of PDEs over curved domains	Swapnil Kale, Debasish Pradhan, and M Tripathy,	2024
28	Journal	Online ISSN: 2214-2134	Journal of Information Security and Applications, Elsevier, 73 (2023): 103431. (Indexed: SCIE, IF= 4.96)	Lwr-based quantum-safe pseudo-random number generator	Anupama, Arun Mishra	March 2023
29	Journal	ISSN: 1683-3198	The International Arab Journal of Information Technology, iajit, Vol. 20, No. 6, November 2023. (Indexed: SCIE, IF= 1.349)	"LWE Based Quantum-Resistant Pseudo-Random Number Generator",	Anupama, Arun Mishra	Nov 2023

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30	Milit Journal	--	MILIT Journal (peer Reviewed)	Role of Artificial Intelligence in Psychological Warfare	Sunita Dhavale	2023
31	Journal	doi: 10.23940/ijpe.23.11.p1.711718 Vol 19, Issue 11,	IJPE	A Local Outlier Factor based Automated Anomaly Event Detection of Vessels for Maritime Surveillance	Bharath Ramkrishna	2023
32	Conference Proceedings	https://doi.org/10.1007/978-981-99-1414-2_12	Springer Nature Singapore-ICDMAI	Statistics Driven Suspicious Event Detection of Fishing Vessels based on AIS Data	Dr Bharath Ramkrishna	2023
33	Conference Proceedings	https://doi.org/10.1007/978-981-99-1414-2_8	Springer Nature Singapore-ICDMAI	Suspicious Event Detection of Cargo Vessels based on AIS Data	Dr Bharath Ramkrishna	2023
34	Conference Proceedings	To be Published	CODS 2024	Surveillance Video Summary Generation Using Transformers	Dr Bharath Ramkrishna	2024
35	Journal paper	2228-6187	Iranian Journal of Science and Technology-Transactions of Mechanical Engineering	Temperature and Mass Dispersion of Free Convective Radiative Non – Newtonian Nano fluid flow between two Parallel Plates	R. Arpitha, N. Naresh Kumar and D. Srikanth	Published online, March 2023, SCIE. IF - 1.3
36	Journal paper	1005-1031	Appl. Math. J. Chinese Univ.	Heat transfer analysis of Al ₂ O ₃ and Cu nano particles using ethylene glycol as base fluid: A Comparative Study	R Arpitha and D Srikanth	Submitted, Under Review
37	Journal	Vol. 12, pp. 1–10, 2023	Journal of Nanofluids,	Bio-Convective Hartmann Flow of Couple Stress Hybrid Nanofluid Between Two Dilating Parallel Walls with Heat and Mass Transfer,	Adigoppula Raju, Odela Ojjela, N. Naresh Kumar* and I. Sreenath,	2023

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38	Journal	Vol. 23, Issue 3, pp: 890-903, 2023	Journal for Basic Sciences,	Multipath error analysis with different sampling rates and mitigation on an SDR-based re-configurable GPS software receiver	B Sathish Nayak*, K Krishna Naik, Odelu Ojjela and Surendra Pal,	2023
39	Journal	Vol. 103, Issue 10, pp: 1-15.	ZAMM (Journal of Applied Mathematics and Mechanics	Impact of needle size and distinct flow conditions on thermal performance of TiO ₂ -MWCNTs hybrid nanofluid flow past thin needle using Casson fluid model	Preeti Prashar, Odelu Ojjela*, Pravin Kashyap Kambhatla	2023
40	Journal	--	ESAIM: P&S	Universal consistency of the \mathbb{R}^k -NN rule in metric spaces and Nagata dimension.	S Kumari, V Pestov	Accepted in Feb 2024
41	Full Paper International conference	--	International Conference on Recent Advances in Fluid Mechanics and Nanoelectronics (ICRAFNM-2023) organized by MIT Bangalore	DL/FNN parameter estimation from penalty finite element flow field and heat analysis of thermo-magnetic natural convection with entropy generation in an inverted T-shaped porous enclosure	Sumant Kumar, B.V.R. Kumar, S.V.S.S.N.V.G. Krishna Murthy	2023
42	Full Paper International conference	--	6th International Conference on Forum for Industrial and Applied Mathematics (FIAM-2023) organized by BITS Pilani, Dubai Campus	Double-diffusion with entropy generation study in an inverted T-shaped porous enclosure with DL-based parameter estimation	Sumant Kumar, B.V.R. Kumar, S.V.S.S.N.V.G. Krishna Murthy	2023
43	Full Paper International conference	--	International Conference on Recent Advances in Fluid	Numerical study of entropy generation in magneto-convective flow of	Deepika Parmar, B. V Rathish Kumar,	2023

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			Mechanics and Nanoelectronics (ICRAFNMN-2023)	nanofluid in porous enclosure using fractional order non-Darcian model	SVSSNVG Krishna Murthy,	
44	Full Paper International conference	--	International conference on Frontiers in Industrial and Applied Mathematics (FIAM -2023)	Numerical study of time-fractional derivative on double diffusive convective flow of nanofluid in a wavy porous cavity	Deepika Parmar, SVSSNVG Krishna Murthy, B.V. Rathish Kumar	2023
45	Full Paper International conference	ISSN: 1071-6572.	IEEE International Carnahan Conference on Security Technology (ICCST 2023), DIAT, Pune	Pseudo Random Binary Sequence using Lattice-based Hard Problem for Quantum Key Distribution,	Anupama, Arun Mishra	Accepted in Oct 2023
46	Full Paper International conference	ISSN: 2572-7621	IEEE 11 th Region 10 Humanitarian Technology Conference (R10-HTC)	Blockchain Based Decentralized Technology for Internet Naming Systems, 2023	Student, Arun Mishra	Accepted in Sept 2023
47	Full Paper International conference	ISBN: 978-1-6654-7518-1.	International Conference for Advancement in Technology (ICONAT) IEEE, Goa, India, 2023, pp. 1-7, doi: 10.1109/ICONAT57137.2023.10080464.	“Cyber Security Enhancement with an Intelligent Android Prototype	Student, Arun Mishra	2023
48	Full Paper International conference	ISBN 9781665450478	International Conference on Futuristic Technologies (INCOFT) IEEE, Belgaum, India, April 2023, pp. 1-5, doi: 10.1109/INCOFT55651.2022.10094434.	“Security Intensification in Restricted Area By Confining Unauthorized Smart Phone Applications,”	Student, Arun Mishra	April 2023
49	Full Paper	Online ISBN	ICICSE. Lecture Notes in	Efficient Pseudo-Random Number	Student, Arun Mishra	May 2023

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	International conference	978-981-19-7455-7	Networks and Systems, vol 565, 513-524. Springer, Singapore. https://doi.org/10.1007/978-981-19-7455-7_38	Generator Using Number-Theoretic Transform. Innovations in Computer Science and Engineering.		
50	Full Paper International conference	---	IEEE Pune Section International Conference (PuneCon), 2023. IEEE Explore	"Forecasting of financial time series data possessing stable distributions by employing Stochastic Differential Equations: A review", in Proceeding	Pratibha Bhandari, Neelesh S. Upadhye and Debasish Pradhan,	2023
51	Full Paper International conference	doi: 10.1109/ICONAT57137.2023.10080271.	IEEE International Conference for Advancement in Technology (ICONAT), Goa, India, 2023, pp. 1-6	"NTFS: Introduction and Analysis from Forensics Point of View,"	R. Hermon, U. Singh and B. Singh,	2023
52	Full Paper International conference	doi: 10.1109/ICEEICT56924.2023.10157307	IEEE," Second International Conference on Electrical, Electronics, Information and Communication Technologies (ICEEICT), Trichirappalli, India, 2023, pp. 1-6	Cyber and Electronic Warfare in Context of Defence Forces in Present Scenario	R. Hermon, U. Singh and M. Khatkar	2023
53	Full Paper International conference	doi: 10.1109/ICONAT57137.2023.10080101	IEEE International Conference for Advancement in Technology (ICONAT), Goa, India, 2023, pp. 1-5	"Resolving Attached USBs: Analysis of Windows 11 Artifacts,"	A. Budhrani, U. Singh and B. Singh	2023

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54	Full Paper International conference	doi: 10.1109/IN DISCON58 499.2023.10 270092.	IEEE 4th Annual Flagship India Council International Subsections Conference (INDISCON), Mysore, India, 2023, pp. 1-5	"Detection and Simple Tracking Method for ADAS using a mmWave Radar,"	V. K. A. Vengadarajan and U. Singh,	2023
55	Full Paper International conference	doi: 10.1109/C ONECCT5 7959.2023.1 0234756	IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT), Bangalore, India, 2023, pp. 1-5,	"Detection mechanism for vehicle collision avoidance using mmWave Radar,"	K. Venkatesha, A. Vengadarajan and U. Singh	2023
56	Full Paper International conference	In press	IEEE International Carnahan Conference on Security Technology (ICCST'23), Pune, India,	"Detection of malware using Deep Learning",	Inakollu Shanmukha Srinu, Deepti Vidyarthi.	October, 2023
57	Full Paper International conference	In press	International Conference on Futuristic Technologies (INCOFT)	"Bidirectional English-Marathi Translation using Pretrained Models: A Comparative Study",	Lekhraj S., Deepti Vidyarthi	Nov-2023
58	Full Paper International Conference	pp. 1-7, DOI: 10.1109/IN COFT60753 .2023.10425 607	IEEE 2nd International Conference of Futuristic Technologies (INCOFT), Belagavi, Karnataka, India	"Methods of Identifying and Reducing Covert Channel Attacks: An Analysis,"	K. S. Kumar S and M. J. Nene	2023
59	Full Paper International Conference	doi: 10.1109/IN COFT60753 .2023.10425 372.	IEEE 2nd International Conference on Futuristic Technologies (INCOFT),	"Machine Learning in the Quantum Era,"	S. Khurana and M. J. Nene	2023

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			Belagavi, Karnataka, India, 2023			
60	Full Paper International Conference	doi: 10.1109/AIKIIE60097.2023.10389962	IEEE International Conference on Ambient Intelligence, Knowledge Informatics and Industrial Electronics (AIKIIE), Ballari, India, 2023	"Implementation of Database Search with Quantum Computing: Grover's Algorithm vs Linear Search," .	S. Khurana and M. J. Nene	2023
61	Full Paper International Conference	doi: 10.1109/ICONAT57137.2023.10080381	IEEE International Conference for Advancement in Technology (ICONAT), Goa, India, 2023	"PEGASIS - LEACH: Energy Efficient Protocols With Route Optimised Techniques,"	S. Chauhan and M. J. Nene	2023
62	Full Paper International Conference	pp. 1-6, doi: 10.1109/ICONAT57137.2023.10080522.	IEEE International Conference for Advancement in Technology (ICONAT), Goa, India, 2023	"Performance Assessment of Deep Learning Algorithm Using xView Data Set,"	A. Singh and M. J. Nene	2023
63	Full Paper International Conference	pp. 1-7, doi: 10.1109/ICECCT56650.2023.10179660.	IEEE Fifth International Conference on Electrical, Computer and Communication Technologies (ICECCT), Erode, India, 2023	"Role of Blockchain and Information Classification Management,"	B. S. Shishodia and M. J. Nene	2023
64	Full Paper International Conference	pp. 1-6, doi: 10.1109/INOCON57975.2023.10101061	IEEE 2nd International Conference for Innovation in Technology (INOCON), Bangalore, India, 2023	"Data Protection Regulations Using Blockchain,"	B. S. Shishodia and M. J. Nene	2023

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Sl No	Type of Publication	Reference No. ISBN No. Doc No	Publisher Name	Title	Author	Publication Date
65	Full Paper International Conference	pp. 1-8, doi: 10.1109/I2CT57861.2023.10126118	IEEE 8th International Conference for Convergence in Technology (I2CT), Lonavla, India, 2023	"Object Detection Algorithm based on Structural Modification in the Convolutional Neural Network for Remote Sensing Satellite Images,"	A. Singh and M. J. Nene	2023
66	Full Paper International Conference	pp. 1-6, doi: 10.1109/CO NIT59222.2023.10205528	IEEE 3rd International Conference on Intelligent Technologies (CONT), Hubli, India, 2023	"DeEN: Deep Ensemble Framework for Neuroatypicality Classification"	A. Subudhi, N. Hasan and M. J. Nene	2023
PATENTS in March 2023-April 2024.						
67	INDIAN PATENT	IP No. 437134	Indian Patent	Invention entitled A Method of TRUST Evaluation of a NODE by itself	M. J. Nene & S Sundeep Desai	on 4 th July 2023

(b)Invited Lectures/ Delivered Talks:

S.N.	Programme & SoCE&MS Participation	Organized by/EVENT details
1	Delivered a talk on Two Day International Symposium on Recent trends on Numerical Methods for Convection Diffusion Reaction Models, Fluids & Allied Topics. By Dr. S.V.S.N.V.G Krishna Murthy, Professor	Department of Mathematics and Statistics Indian Institute of Technology Kanpur, 20 - 21 January 2024.
2	Delivered a series of lectures (04), By Dr. S.V.S.N.V.G Krishna Murthy, Professor	Department of Mathematics, QIS College of Engineering & Technology, Ongole, November 2023.

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S.N.	Programme & SoCE&MS Participation	Organized by/EVENT details
3	Delivered a talk at Two Day National Seminar on Recent Trends in Mathematical Sciences, By Dr. S.V.S.N.V.G Krishna Murthy, Professor	Department of Mathematics, St. Pious X Degree and PG College for Women, Nacharam, Hyderabad in collaboration with A V College, Domalguda, Hyderabad, 26 - 27 April 2023
4	Delivered a Lecture at Department of Computer Science & Engineering, By Dr. S.V.S.N.V.G Krishna Murthy, Professor	BMS College of Engineering, Bengaluru, 6 th April 2023.
5	Delivered a Lecture at Department of Mathematics, By Dr. S.V.S.N.V.G Krishna Murthy, Professor	M .S. Ramaiah Institute of Technology, Bengaluru, 6 th April 2023.
6	Delivered a lecture at UGC Sponsored - National Conference on Advances in Mathematical Sciences and its Applications (NCAMSA), By Dr. S.V.S.N.V.G Krishna Murthy, Professor	Department of Mathematics, Acharya Nagarjuna University Guntur, 17 - 18 March, 2023.
7	Delivered a Plenary Talk on “Mathematical modelling of Heat and Mass transfer analysis of non-Newtonian fluid flows through porous parallel plates” By Dr Odelu Ojjela	DST-SERB sponsored International conference on Mathematical Modelling and Emerging Trends in Computing (ICMMETC- 2023) held at Woxsen University, Hyderabad during June 23-25, 2023
8	Presented a paper entitled " <u>On the penalty approach in finite difference methods</u> " authored by Debasish Pradhan, Swapnil Kale in the 10 th International Congress on Industrial and Applied Mathematics (ICIAM - 2023) held at Waseda University, Tokyo, Japan, August 20 - 25, 2023. By Dr Odelu Ojjela	10 th International Congress on Industrial and Applied Mathematics (ICIAM - 2023) held at Waseda University, Tokyo, Japan, August 20 - 25, 2023.
9	Delivered a Invited talk on the Recent Developments in Mathematical Sciences- 2024 in the National Conference on the Recent Developments in Mathematical Sciences-2024 during the period 12th February 2024 to 14th February 2024 at University of Hyderabad. By Dr Odelu Ojjela	National Conference on the Recent Developments in Mathematical Sciences-2024 during the period 12th February 2024 to 14th February 2024 at University of Hyderabad.

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S.N.	Programme & SoCE&MS Participation	Organized by/EVENT details
10	Delivered a talk in the Faculty Development Programme titled “Modern Trends of Design Thinking, Sciences and Professional Skills in Engineering” By Dr Debasish Pradhan	School of Computing, Department of Applied Sciences & Humanities, MIT-ADT University, Pune, India during the period 11 th December 2023 to 22 nd December 2023.
11	Presented a paper entitled " <u>On the penalty approach in finite difference methods</u> " authored by Debasish Pradhan, Swapnil Kale in the 10 th International Congress on Industrial and Applied Mathematics (ICIAM - 2023) held at Waseda University, Tokyo, Japan, August 20 - 25, 2023. By Dr Debasish Pradhan	10 th International Congress on Industrial and Applied Mathematics (ICIAM - 2023) held at Waseda University, Tokyo, Japan, August 20 - 25, 2023.
12	Delivered a Invited talk on the Recent Developments in Mathematical Sciences- 2024 in the National Conference on the Recent Developments in Mathematical Sciences-2024 during the period 12th February 2024 to 14th February 2024 at University of Hyderabad. By Dr Debasish Pradhan	National Conference on the Recent Developments in Mathematical Sciences-2024 during the period 12th February 2024 to 14th February 2024 at University of Hyderabad.
13	Delivered the Chief-Guest address at Higher Education Conference Summit ASMA, Invited as Chief Guest to deliver a session on “GEN-Z and digitisation environment in 2025” July 2023. By Dr Manisha J. Nene	5 th National Conference on Generation-Z Higher Education Summit, ASMA, Mumbai. July 21, 2023.
14.	Delivered a Keynote Address in International Conference on Signal & Data Processing 2023, 4 th Nov 2023. Topic “Advanced Persistent Threats and the Digitization” By Dr Manisha J. Nene	7 th International Conference on Signal & Data Processing 2023, 2 nd – 5 th Nov 2023. School of Electrical & Electronics Engineering (SEEE), VIT Bhopal University, Kothrikalan, Madhya Pradesh - 466114. Sehore,

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S.N.	Programme & SoCE&MS Participation	Organized by/EVENT details
15.	Delivered an Expert Session in Army Bureau Design Sponsored Seminars on Human Machine Teaming. 12 th Dec 2023. On The Trends and lexicons and use-cases to equip the skill sets of Indian Army. By Dr Manisha J. Nene	ABDS Seminars, CME, PUNE, 12 to 14 th Dec 2023.
16.	CAPSTAR Courses and AI SEMINARS, Expert Session on AI and TRENDS on 17 th Jan 2024. By Dr Manisha J. Nene	MILIT AI Seminars, & Expert sessions for CAPSTAR Courses. 17 th to 19 th Jan 2024.
17.	GH Raison, NAAC A+ Accredited, Seminars on Cyber Security and Role of Startup Companies in INDIA. By Dr Manisha J. Nene	MSME Sponsored Workshop, Innovation and Incubation Centre, Sponsored Event by Ministry of Small Scale Industries. Location- Pune.
18.	CDAC Symposium on Accelerating Biology 2023, Chaired the Session & Delivered a Keynote address on Algorithms for Big Data Analysis. By Dr Manisha J. Nene	Accelerating Biology Symposium (March 29-03 April 2023)
19.	University Symposium at SPU, Expert Session in MIMO advancements and role of AI for applications using MIMO technologies. Feb 2024. By Dr Manisha J. Nene	Sponsored by DRDO, One Week FDP and SEMinars conducted at SPU, Pune, Feb-2024.
20.	Poster Presentation on CRYPTANALYSIS to Hon Rakshamantri Shri Rajnath Singh, May 2023. By Dr Manisha J. Nene	Visit of Chancellor, Hon RM to DIAT in May 2023
21	4 hours technical session conducted on Cryptography May 2023. By Dr Arun Mishra	IIIT Pune,
22	Invited Speaker at “Research and Academia Sub-Summit on Emerging Technologies...Security Challenges and Opportunities”, Best Practice Meet, 22 nd Aug. 2023	DSCI along with IIIT, Bangalore
23	Invited Speaker at CEP on " Advance Surveillance and Navigation Technologies for Unmanned Ground Vehicles(UGVs)", 21-25th Aug. 2023	R&DEngg.,DRDO, Pune

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S.N.	Programme & SoCE&MS Participation	Organized by/EVENT details
24	Postor Presenter on “Countering Drones using Soft kil”, during Convocation, 2023 for Rakshmantri’s Visit on 15 th May 2024	DIAT, Pune
25	Delivered a guest lecture for Chandigarh University. By Dr Bharath Ramkrishna	Chandigarh University
26	Delivered a guest lecture for Certification course on AI for Drones @ IIT Hyderabad, By Dr Bharath Ramkrishna	IIT Hyderabad
27	Delivered a guest lecture for R&DE DRDO Pune, By Dr Bharath Ramkrishna	R&DE DRDO Pune
28	Invited as an Expert for PhD Evaluations, Six monthly Progress viva - Online Evaluation on 20 th April,2023 at 2.00pm, MES's IMCC Research Centre,Pune. By Dr Sunita Dhavale.	MES's IMCC Research Centre,Pune
29	Contribution as Session Moderator/Chair during the Keynote Talks, ICDMAI International Conference, 2023. By Dr Sunita Dhavale.	ICDMAI International Conference, 2023, DIAT, Pune
30	Contributed as Reviewer, ICDMAI International Conference, 2023. By Dr Arun Mishra, Dr Sunita Dhavale, Dr Upasna.	ICDMAI International Conference, 2023, DIAT, Pune
31	Invited as an expert for taking 4 sessions on IOT in TTC-52 course, 01 Apr 2024, By Dr Sunita Dhavale.	TTC-52, TTC wing, school of tech training, AC Center and school-900476Ahmadnagar
32	Invited as an expert for taking 4 sessions on Cyber Security in FDP, 01 Apr 2024, By Dr Deepti Vidyarthi at MIT Pune	FDP, MIT Pune.
33	Invitation to be RESOURCE PERSON & contributing for BoS for the 03 deemed universities for Graduate and Post Graduate Computer Engineering Courses. By Dr MJ Nene	Board of Studies Resource Person, An Expert Member. June -2023; Feb 2024.
34	Invitation to be Advisory Committee Member & contributing for DST Funded Technology Business Incubation at MIT CoE, Pune, & Mentor for two startup companies. By Dr MJ Nene	DST Funded, MSME and Technology Business Incubation Centre, Pune, Meetings on one Sundays of each month, 2023.
35	TIFR GMRT Educational Excursion and visit of MSc Data Science, MTECH DS and MTECH CSE (AI) students in Feb 2024. By Dr Sushma Kumari	By Invitation, participation for The Science Day Exhibits and a Stall given to SoCE&MS by GMRT Scientists. More than 22,000 visitors vistied the stall of SoCE&MS.27, 28 th Feb 2024.

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S.N.	Programme & SoCE&MS Participation	Organized by/EVENT details
36	Visit of IAF 9-BRD Team of 07 Officers visited the SoCE&MS. The visit by Coordinated by Dr Satpathy. Demonstration of work done in school given by all faculty members	Educational Excursion and visit was to exchange the innovative ideas to explore the possible research in collaboration. Dec 2023.
37	Visit to SAG, New Delhi. Explore the methods to evolve with learning curves for developing infrastructure and skills in the area of cryptanalysis. Feb 2024. By Dr MJ Nene, Dr DV Vidyarthi.	Intitatives for the formation of School in the areas that the national needs are conveyed by the users.

(c) Contributed Talks and poster presentation:

S. No.	EVENT DETAILS & SoCE&MS Participation
1	Contributions to enable Cyber Security trainings for IPS officers of Ministry of Home Affairs.by Dr. M. J. Nene & Dr D V Vidyarthi.
2	Ministry of Electronics & Information Tech Meity Collaborations for Cyber Security Course conduct. Dr. M. J. Nene & Dr D V Vidyarthi.
3	Indian Army, College of Military Engg. CME Pune. Delivered Expert sessions on Human Machine TEAMING. Dr. M. J. Nene
4	Indian Navy, First MSc (IT) Batch execution. INS HAMLMA, Indian Navy, as a BoS Chairman facilitated deployment of MSc (IT) Course from SoCE&MS, DIAT. Dr. M. J. Nene
5	Technical Sessions in the area of Data Analysis at INS HAMLMA, Mumbai. Approx. 16 hours. Dr. M. J. Nene
6	Milit. Technical Sessions in the area of Cyber Security, Data Analysis and Quantum Algorithms at Milit, Pune. Approx. 16 hours Dr. M. J. Nene
7	Expert Session INDIAN ARMY CMD Seminar Expert -Session om HMT on Dec 2023 by Dr. M. J. Nene
8	Invited Prof. Veni Madhavan to deliver a session on Cryptology. Cyber Security Month Celebrations. Oct 27 to 30th 2023 by Dr. M. J. Nene
9	Prof Sule Virendra, IIT Powai, Delivered a Session on Cryptanalysis Aug 2023 by Dr. M. J. Nene
10	Organised Seminar on Cryptanalysis for SoCE&MS, EE, SQT. Dir RESEARCH SI, NTRO, Prof

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S. No.	EVENT DETAILS & SoCE&MS Participation
	Veni, Prof Sule, Dr Talwar, were invited. April 2023 by Dr. M. J. Nene
11	Delivered Key Note address on Trends in Cyber Security in International Springer Conference at BITS Bhopal. Approvals through proper channel. June 2023. by Dr. M. J. Nene
12	Delivered Lectures in Customized Courses in Cyber Security, AI&ML organized by DIAT for Navy Officials.by Dr.Upasna. Singh
13	Organized Guest-LIVE Lectures for Participants, OTCC and Invited Expert Talks for MTech/PhD Students, DIAT. by Dr.Upasna. Singh
14	Delivered Talk at CEP organized by R&D Engg. , DRDO, Pune. by Dr.Upasna. Singh
15	Dr Sunita Dhavale along with author: Rohan Jadhav, presented paper titled “ Deep Neural Network based Yoga Posture Classification using Human Pose Estimation” in India4th International Conference onEmerging Trends and Technologies on Intelligent Systems(ETTIS-2024) 27th – 28th March, 2024.

(d) Academic event Organised (Workshop/Seminar/Symposium/Conference]

S.N.	Contribution by SoCE&MS & Participation:	Duration
	Organised & Arranged: International Conference/ Seminars/ Hands-on Sessions/ Guest-lectures	
1	International Conference on Data Management, Analytics & Innovation (ICDMAI-2023)	20-22 nd Jan 2023
2	International IEEE Carnahan Conference on Security Technology (ICCST,2023)	11 th -15 th Oct 2023
3	Seminars only by Invitation to the experts in the area of Cryptology	12 th April 2023
4	Committee Deputed by DRDO HQ, Seminars and Presentations in the areas of Cryptology	16 th June 2023
5	Seminars by Prof. Veni Madhanvan in CSE Section in the areas of Algorithms and Cryptanalysis; Cryptology.	26 th to 31 st Oct 2023
6	Organized Online-Training & Certification Course on AI&ML- Batch-05 (12 th Jun 2023-28 th Oct 2023)	12 Weeks
7	Attended PDP on “EMPOWERING RESEARCH AND STATISTICAL ANALYSIS” from 24-07 2023 to 28-07-2023.	01 Week

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(e) Customised/Certification Courses/ Revenue Generation through Educational Consultancy:

1. SoCE&MS offers **PAN INDIA LEVEL** 16 weeks Online Training and Certification Course (OTCC) was launched by CSE Department in Sep 2023, as per the directions of DRDO HQ in [the domain of Cyber Security](#). Total participants: 309.
 - The OTCC Courses comply with 4Quardants of e-Learning, to Cater for (I) e-Tutorial (II) e-Content, (III) Web Resources for discussions & doubt clearence and (IV) Self Assessment, feedbacks & evaluations, respectively.

OTCC	E-Tutorial	Course Coordinator(s)	Course Director	Revenue Generated (2023)
(e) Pt. 1. Cyber Security	170 Hrs (16 Weeks)	Dr. Deepti Vidyathi	Dr. Manisha J. Nene	Rs. 2.5 Cr.

2. SoCE&MS offers **PAN INDIA LEVEL** 12 Weeks Online Training and Certification Course (OTCC) was launched by [CSE Department in Nov 2023](#), as per the directions of DRDO HQ in [the domain of AIML](#). Total Participants: 413.
 - The OTCC Courses comply with 4 Quardants of e-Learning, to Cater for (I) e-Tutorial (II) e-Content, (III) Web Resources for discussions & doubt clearence and (IV) Self Assessment, feedbacks & evaluations, respectively.

Details as follows:

OTCC	E-Tutorial	Course Coordinator(s)	Course Director	Revenue Generated (2023)
(e) Pt. 2. AIML	120 Hrs (12 Weeks)	Dr. Upasna Singh	Dr. Manisha J. Nene	Rs. 2 Cr.

(f) Facilities [Labs, Software, Equipments etc.]:

- 1) Yogeshwar Singh Dadwhal - Procurement of Workstations and other lab equipment for setting up of MTech/Ph.D. Lab with the MMG is proposed. These workstations will enable students to work on a variety of Data Science related research problems.
- 2) Servers, Mobile work-stations and IoT Kits. Dr Sunita Dhavale through Funds from Sponsored Research Projects.
- 3) Initiatives to enable subscriptio to DIAT for installing & using e-Samarth HEI ERP, MEITY offered platform & data-servers maintained by MEITY & MHRD, India. No financial burden to DIAT. Efforts By Dr. MJ Nene.

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Period: April 2023 to March 2024

(g) Sponsored Projects:

S N	Title of the Sponsored Project at SoCE&MS	Agency	Period	PI or Co-PI	Grant/ Amt in (Rs)
1	Data Analytics based Maritime Traffic Analysis	DIAT Seed Fund	Jun 2022 – Jun 2024 (Ongoing)	PI Dr Bharath; Co-PI S.V.S.S.N.V.G. Krishna Murthy,	9,89,000/-
2	Super-Resolution in IR Thermal Images for Drone Surveillance	DIAT Seed Fund	Mar 2022- Mar 2024 (Ongoing)	PI Dr Yogeshwar Co-PI S.V.S.S.N.V.G. Krishna Murthy,	9,44,000/-
3	Multiphysics and Entropy Generation in Complex Porous Cavities with Nanofluids under Magnetic Effect: Modelling and Simulation	SPARC, Ministry of Education, Govt of India	Under Review	S.V.S.S.N.V.G. Krishna Murthy, PI	56,78,000/-
4	Computational Fluid Dynamics Areas	SPARC, Ministry of Education, Govt of India	Two Years	Dr Odelu Ojjela	Rs. 45,00,000/-
5	Ministry of Education, Approval to DIAT through procedure for e-Samarth Implementation	Meity & Delhi University	Since July 2022	Dr. Manisha J. Nene	Selection by Committee at MoE. No financial overheads to DIAT
6	Data Driven Machine Learning Algorithms for Engine Health Prognostics based on FADEC Data	ADA	2023-24	Dr Bharath Ramkrishna - PI	9,72,757/-
7	Data Analytics-based Maritime Traffic Analysis	DIAT	2022-24	Dr Bharath Ramkrishna- PI	9,89,000/-
8	Development of AI Frameworks for Improving Maritime Traffic Situational Awareness	TIHAN	2023-25	Dr Bharath Ramkrishna- PI	22,00,000
9	Super-Resolution in IR Thermal Images for Drone Surveillance	DIAT-Seed Grant	Two Years from 04 May 2022	Dr Yogeshwar Singh Dadwhal	9,44,000/-

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S N	Title of the Sponsored Project at SoCE&MS	Agency	Period	PI or Co-PI	Grant/ Amt in (Rs)
10	Pseudo Random Number Generation & QKD	SQT	2022-24	Dr Arun Mishra	5,00,000/-
11	Leveraging Deep Learning Models for Human Activity Recognition	DIAT	Three Years (March 2019 to March 2022)	Dr. Upasna Singh, PI	8,21,300/-
12	Intelligent Video Based Human Activity Analysis	LSRB-DIPR	28 Months (24 th April 2021 to 15 th August 2023)	PI Dr Sunita Dhavale; Co-PI, Dr. Upasna Singh, Co-PI Dr. Manisha J. Nene	44,58,051/-
13	Drone Forensics Tool (DFT) for Fly Path Reconstruction, Resident Files, Directories, Network Artifacts, and Event Logs Analysis	Data Security Council of India.	08 Months (15 th Feb 2023 to a 14 th Oct. 2023)	Dr. Upasna Singh, PI	4,60,000/-
14	Development of a medium range free space secured optical Voice simplex communication system for the mission critical wireless optical link	National Agency NXXO	July 2021 to July 2023	Dr Arun Mishra , Co-PI Dr Basil Raj PI.	89,40,000/-
15	Prognostic Health Management	ADA	March 2023, (Ongoing)	PI Dr Sunita Dhavale; Co-PI Dr Pooja Agarwal	21,00,039/-
16	Super-Resolution in IR Thermal Images for Drone Surveillance	DIAT SEED grant	Two Years	Co-PI Dr Yogeshwar Singh Dadwhal PI Prof Murthy	9,44,000/-
17	Enhancing Random Projection for Machine Learning Algorithms	DIAT SEED grant	Two Years From Sept 2023	Dr. Sushma Kumari, PI	8,00,000/-

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(h) List of PhD Students (with photographs) (who have been awarded degrees):

Name of the Student Dr. Bhookya Satish Nayak (F-15-52-25)		
Thesis Title	SDR based GNSS System Design and Multipath Mitigation Analysis	
Supervisor	Dr Odelu Ojella	

(i) New Initiatives:

Sr. No.	Description of Initiatives by SoCE&MS
1.	In Dec 2023, IEEE Pune Section selects DIAT to host the 7 th IEEE Conference PUNECON-2024; comes to DIAT; SoCE&MS will be the Organising Host for Dec-2024, 12 th to 15 th . SoCE&MS unanimously taking initiatives for its conduct.
2.	New building for CSE, SoC and Submissions since 2022, in the phase of AoN & final discussions.
3.	The Data-Centre of DIAT, complete revamping of the servers and network devices in progress, Nov 2023. SoC Submission to DRDO HQ.
4.	The First HPC setup at DIAT in Data Centre; the proposal & SoC for AoN submission to DRDO HQ, Nov 2023.
5.	Submission of Forecast Budget for revamping of Common Cyber Security Lab; Common AIML Lab prepared, Oct 2023.
6.	Submission of Forecast Budget for revamping of Common Data Science Lab; Common Research Lab for DS and M&S students; prepared, Oct 2023.
7.	Governing Council Member of GH Rasoni Group of Institutes, invitation and acceptance, Dr MJ Nene. NAAC A+ Accrediated Educational Institute.
8.	Successful organization of IEEE Carnahan International Conference on Security Technology (ICCST 2023) at DIAT. Successfully got the conference to good start. The Conference has attracted more than 100 research papers and was organized during 11 th -15 th October 2023 at DIAT with sponsorship from DRDO, IEEE, Akridata and Ansys. International participants from more than 10 countries participated in the event. The proceedings is being published by IEEE on their digital library. By Dr CRS Kumar.
9.	Google ML competition on American Sign Language Fingerspelling Recognition: Achieved top 15% in this global competition. By Dr CRS Kumar.

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Sr. No.	Description of Initiatives by SoCE&MS
10.	CommonLit ML Competition for Evaluating Student summaries: Bronze Medal (top 10%). This is a global competition involving developing ML models and coding. by Dr CRS Kumar.
11.	Linking Writing Processes to Writing Quality ML Competition Bronze medal(top 10%). by Dr CRS Kumar.
12.	LLM: Detecting AI generated Text: ML Competition Silver Medal(Top 5%) by Dr CRS Kumar
13.	Expert in all four categories of ML and Data Science (Kaggle.com (Google subsidiary)) Competition Expert (Top 1%) by Dr CRS Kumar
14.	Fellow of British Computer society (BCS) to Dr CRS Kumar.
15.	Contribute in GoI's initiatives & efforts for digitization while staying relevant by M. J. Nene
16.	Received one of the 100 Top Mentors for students in ATL Tinkerpreneur Bootcamp 2023, by Atal Innovation Mission, Gov of India. Participated as mentor/ Mentor of Change in ATL Tinkerpreneur Bootcamp, by Atal Innovation Mission, Gov of India, Tinkerpreneur is the theme for ATL Tinkerfest, 2023 By Dr. Sunita V. Dhavale
17.	Successful completion of the EC-Council's Certified Ethical Hacker (CEH-v9) Certification Examination on 02/10/2017 with 92.6 Score, the certificate validity is extended upto 2026 based on her contribution in cyber security research/education domain. By Dr. Sunita V. Dhavale.
18.	Received best paper award for the presented paper titled “ Deep Neural Network based Yoga Posture Classification using Human Pose Estimation” in India4th International Conference on Emerging Trends and Technologies on Intelligent Systems(ETTIS-2024) 27th – 28th March, 2024. By Dr. Sunita V. Dhavale
19.	Received best paper award in 11 th IEEE International Conference, Paper Titled “A Study of Common Vulnerabilities in IoT Devices” on Recent Trends in Computing on Intelligent Systems(ICRITO-2024) 27th – 28th March, 2024. By Dr. MJ Nene & Dr DV Vidyarthi.
20.	Dr Upasana Singh performed as an Invited Expert Committee Member - iDEX Outreach Session, organized by DSCI, NASSCOM on 21 st March 2023.
21.	Dr Upasana Singh performed as a Member, Women Complaints Committee, DIAT July 2012 till today
22.	Yogeshwar Singh Dadwhal - Conduct of a colloquium on “AI/ML IN ATMOSPHERE AND OCEAN SCIENCE” delivered by: Dr. Bipin Kumar, Scientist E, IITM, Pune.

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Sr. No.	Description of Initiatives by SoCE&MS
23.	Alumni Invited to deliver sessions to Cyber Security & AIML Students. Group Captain S Sundeep Desai & Col Vincent delivered sessions in Sept 2023, Nov 2023, respectively. Organised by Dr MJ Nene.
24.	Dr. Deepti Vidyathi performed as a Warden, Girls Hostel Chief Warden, DRONA In charge, ISO Member & CTP Task force member.
25.	Organized internal hackathon at institute level for Smart India Hackathon 2023 by Dr Sushma Kumari
26.	Represented DIAT at National level at the GMRT Science Exhibition Fair 2024. by Dr Sushma Kumari
27.	Anti-Ragging Committee Member Dr MJ Nene, assisted by Mr.Nilesh Anandrao Lawand, Sr. Laboratory Assisitant- Conducted Anti-Ragging Poster Competition (12-18 Aug 2023) – Dr Arun & Prof. CRS contributed for the evaluation of Poster Competition.
28.	POINTS Batch mentoring in Feb 2024 for the Project Proposal initiatives for DG MEDCoS Group by Dr MJ Nene, Dr SV Dhavale, Dr USingh & Dr DV Vidyarthi
29.	Facilitate Internship in the SoCE&MS for the Undergraduate/PG students from various Engg. Colleges. PAN-INDIA.
30.	Participation of SoCE&MS in NSS camps. Cultural Activities. Sports Events. Various Events at DIAT.
31.	As on in April 2024, the participation status of SoCE&MS Faculty with various roles at Institute-Level: Assistant Controller of Examination, NSS Chairman, Chief Hostel Warden, Chief Girls Hostel Warden, PGC Chairman, DRC Chairman, Cultural Activities Chairman, Anti-Ragging Committee Member, Womens Complaint Cell Members.
32.	TWO BEST Research Paper Awards in Springer Conference & IEEE International Conference. Achievement of Students of MTech CSE (AI) and MTech Cyber Sec, respectively.

END of REPORT