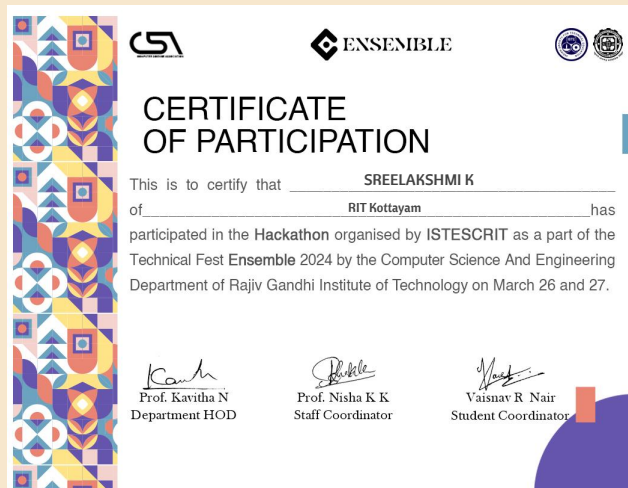


Student Achievements

1. *Febin Nelson won second prize in Ensemble Hackthon organized by ISTE on 26/03/2024 (College Level Technical Event).*



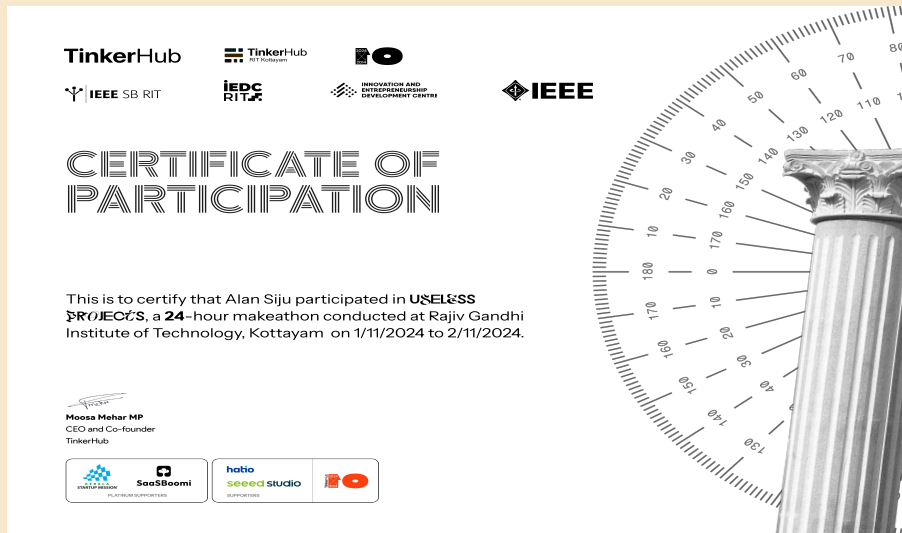
2. *Sreelakshmi K. won second prize in Ensemble Hackthon organized by ISTE SC RIT ENSEMBLE (College Level Technical Event on 05/03/2024).*



3. *Alan Siju won third prize in Ensemble Ideathon organized by ISTE (College Level Technical Event on 27/03/2024)*



4. *Alan Siju won third prize in Hackthon (aimed at developing Use-less Projects) organized by Tinkerhub on 01/11/2024 (State Level Technical Event)*



5. *Amal T Mohan, Kalyani R Nambiar, Sreelaksmi M K, Sreenandana B S, and Vaishnav R Nair won the First place for the topic*

Sustainable Cities and Communities in the ideathon conducted in accordance with the Freedom Fest 2023 (Academic year 2023-24 .)



6. *Sreelakshmi M K was selected for attending SheLovesTech conference held at Singapore, sponsored by Tinkerhub.(Academic year 2023-24)*



7. *Jeethu M Biju, Minnu Shaji, and Parvathy T S were selected for attending SheLovesTech conference held at Singapore, sponsored by Tinkerhub.(Academic year 2023-24)*



8. *Aby Pious and Malavika S were selected as the champions AAravam'24 team (Academic year 2023-24).*

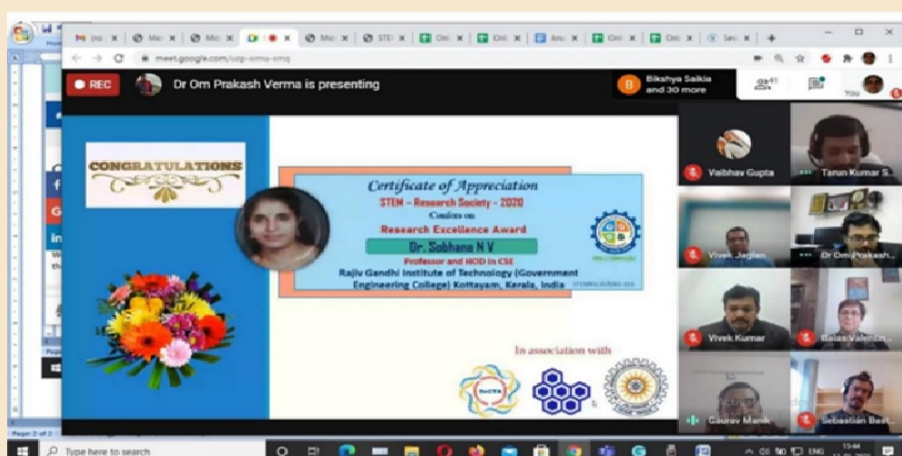


9. *Christy Theresa Chacko was selected as the learning initiative intern at Tinkerhub Foundation (Academic year 2023-24).*



10. *Dr Sobhana N V awarded best teacher award by ISTE on 2018, Research excellence award by STEM Research Society on 2020, Best paper award (co-authorship) in IEEE conference, IIIT Kottayam on 2025*





11. *Receiving award on behalf of Tinker Hub, RIT for hosting a Transformative Learning Initiative (Tink Her Hack 3.0). The ceremony was conducted at Tinkerspace, Kalamassery, presided by Sri. Hibi Eden (MP) and inaugurated by Sri. Anoop Ambika (CEO, Kerala Startup Mission).*



Faculty Publications

- [1] Akanksha Agrawal, Pratibha Choudhary, NS Narayanaswamy, KK Nisha, and Vijayaragunathan Ramamoorthi. Parameterized complexity of minimum membership dominating set. *Algorithmica*, 85(11):3430–3452, 2023. [doi:10.1007/s00453-023-01139-7](https://doi.org/10.1007/s00453-023-01139-7).
- [2] Lissiyas Antony and NV Sobhana. Securing surveillance data using incremental cryptography. In *International Conference on Soft Computing and Pattern Recognition*, pages 216–225. Springer, 2021.
- [3] Dibyayan Chakraborty, L Sunil Chandran, Sajith Padinhatteeri, and Raji R Pillai. s-club cluster vertex deletion on interval and well-partitioned chordal graphs. In *International Workshop on Graph-Theoretic Concepts in Computer Science*, pages 129–143. Springer, 2022. [doi:10.1016/j.dam.2023.11.048](https://doi.org/10.1016/j.dam.2023.11.048).

- [4] SM Dhannya, NS Narayanaswamy, and KK Nisha. Exactly hittable interval graphs. *Discrete Mathematics & Theoretical Computer Science*, 25(Special issues), 2023. doi:[10.46298/dmtcs.10762](https://doi.org/10.46298/dmtcs.10762).
- [5] Shibu Kumar KB and Philip Samuel. Centroid based celestial clustering algorithm: A novel unsupervised learning method for haemogram data clustering. *IEEE Transactions on Emerging Topics in Computational Intelligence*, 7(3):942–956, 2022. doi:[10.1109/TETCI.2022.3211004](https://doi.org/10.1109/TETCI.2022.3211004).
- [6] Shibu Kumar KB and Philip Samuel. A novel framework for solving the optimal path problem in collaborative consignment delivery systems using drones. *International Journal of Intelligent Transportation Systems Research*, 21(2):259–276, 2023. doi:[10.1007/s13177-023-00350-8](https://doi.org/10.1007/s13177-023-00350-8).
- [7] KB Shibu Kumar and Philip Samuel. An efficient method to accurately cluster large number of high dimensional facial images. *IEEE Access*, 11:39934–39949, 2023. doi:[10.1109/ACCESS.2023.3268862](https://doi.org/10.1109/ACCESS.2023.3268862).
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- [9] M Rahul Raj, Rosna P Haroon, and NV Sobhana. A novel extractive text summarization system with self-organizing map clustering and entity recognition. *Sādhana*, 45(1):32, 2020.
- [10] T Raj Kumar, Roshin J Bose, and NV Sobhana. User behavior analysis and threat detection using machine learning. In *International Conference on Soft Computing and Pattern Recognition*, pages 249–256. Springer, 2023.

- [11] MV Sunena Rose and NV Sobhana. Automated diagnosis of diseases using integrated machine learning approaches. In *International Conference on Soft Computing and Pattern Recognition*, pages 195–204. Springer, 2021.
- [12] Chilankamol Sunny and Shibu Kumar K. B. Refined pso clustering for not well-separated data. *Journal of Experimental & Theoretical Artificial Intelligence*, 35(6):831–847, 2023. doi:[10.1080/0952813X.2021.1970238](https://doi.org/10.1080/0952813X.2021.1970238).
- [13] Ashly Thomas and NV Sobhana. A survey on crime analysis and prediction. *Materials Today: Proceedings*, 58:310–315, 2022.
- [14] Pillai Praveen Thulasidharan and Keshab Nath. A novel binary quantizer for variational autoencoder-based image compressor. *International Journal of Computers and Applications*, 46(8):604–620, 2024.
- [15] Bivin Varkey Varghese, Paravurumbel Sreedharan Kannan, Ravilal Soni Jayanth, Johns Thomas, and Kavum Muriyil Balachandran Shibu Kumar. Drone deployment algorithms for effective communication establishment in disaster affected areas. *Computers*, 11(9):139, 2022. doi:[10.3390/computers11090139](https://doi.org/10.3390/computers11090139).