Appendix A

List of Publications

1. Duggaraju, R. M., & Mazumdar, L. (2017). Splines on Wheel Graphs over $\mathbb{Z}/p^k\mathbb{Z}$. *Online International Interdisciplinary Research Journal, 7*(Special Issue), 185–195.

2. Duggaraju, R. M., & Mazumdar, L. (2020). An Algorithm for Generating Generalized Splines on Graphs such as Complete Graphs, Complete Bipartite Graphs and Hypercubes. *AKCE International Journal of Graphs and Combinatorics, 17*(1), 276–295. https://doi.org/10.1016/j.akcej.2019.06.009

3. Duggaraju, R. M., & Mazumdar, L. (2021). A Perspective on Geometric Pedagogy for Secondary School Students in a Virtual Classroom. *Interwoven, An Interdisciplinary Journal of Navrachana University*, 4(1).

4. Duggaraju, R. M., & Mazumdar, L. (2022). Module Basis for Generalized Spline Modules. *Journal of the Indian Mathematical Society, 89*(1-2), 32–43. https://doi.org/https://doi.org/10.18311/jims/2022/29295

Appendix B

Conference presentations

1. Duggaraju, R. M., & Mazumdar, L. (2016, December 22). *Splines on wheel graphs over* $\mathbb{Z}/m\mathbb{Z}$ [Conference Presentation]. First International Conference on Recent Innovations in Engineering and Technology, Hyderabad, Telangana.

2. Duggaraju, R. M., & Mazumdar, L. (2019, November 25). *Basis Criteria for Generalized Spline Modules on Dutch Windmill Graph* [Conference Presentation]. 85th Annual Conference of Indian Mathematical Society, Department of Mathematics, Indian Institute of Technology, Kharagpur.

3. Duggaraju, R. M., & Mazumdar, L.(2020, February 25). *An Algorithm for Minimum Traffic Path using Graph Labelings over a Graph Representing Network of Roads in a City* [Conference Presentation]. International Conference on Ecohealth and Environmental Sustainability (ICEES 2020), Navrachana University, Vadodara, India.

4. Duggaraju, R. M., & Mazumdar, L. (2021, August 6). *Basis Criteria for Generalized Spline Modules on Isomorphic Graphs* [Conference Presentation]. Doctoral Colloquium-NUV Shodhan, Navrachana University, Vadodara, Gujarat.