



3.2.1 - Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

Our college has established a thriving ecosystem for innovations and Indian Knowledge Systems, fostering a culture of creativity, entrepreneurship, and Intellectual Property (IP) awareness. Key initiatives include:

1. **Intellectual Property Rights (IPR) Workshops and Seminars:** The Department of Commerce and Commerce (CA) have conducted 5 Programmes/seminars on IPR to educate students and staff on the importance of patents, copyrights, and trademarks. Notably, **one Assistant Professor from the Department of Microbiology (2021-22) and one staff member from the Department of Chemistry (2022-23) received patents** for their innovations, showcasing the effectiveness of these IPR initiatives.
2. **Innovative Activities in the Department of Microbiology:** The Department has conducted activities like Spirulina Cultivation and Mushroom Cultivation to provide resources and mentorship, enabling staff and students to transform their ideas into prototypes and products. In 2022-23, a team of five students undertook an innovative initiative, **“Ecosafe Handmade SCB Paper,”** producing **1 kg of SCB at a cost of Rs. 3.10 with a production time of 48 hours** (under the guidance of Dr. K. Jagathi). The department plans to expand this project to create SCB disposable tableware and trays in future. An innovative project on a **“Comparative study of the effect of different substrates (Banana Pseudostem, paddy straw & dry leaves)”** on the yield of oystermushrooms done by 6 final year students of Microbiology. The duration was **30 days with an expenditure of Rs.1760** (under the guidance of Dr. K. Vanmathi Selvi).
3. **Innovative Educational Practices:** Knowledge transfer to the student community is promoted through practices such as collaborative learning, digital platform events, online journal publications, and webinar participation.
4. **Progress of Ph.D. Program:** Department of Microbiology and Biochemistry offering Ph.D (FT/PT). Out of **15 candidates admitted to the Ph.D. program, 10 scholars are currently pursuing their degrees and 5 were awarded their Ph.D.** The institution boasts 6 research supervisors who have contributed to literary excellence through numerous research papers and publications in Scopus, Web of Science, UGC care-list journals, peer-reviewed journals and also acting as editorial board member for reputed journal.



SRI AKILANDESWARI WOMEN'S COLLEGE, WANDIWASH.

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5. **Young Student Scientist Programme:** In collaboration with the **Tamil Nadu State Council for Higher Education**, the institution conducted a **15-days residential program for 67 students, with financial assistance of Rs. 3,00,000.** The program aimed to identify students with potential and expose them to the concept of 'Science and Research'.
6. **Integration of Indian Knowledge Systems:** The College integrates Indian Knowledge Systems into its curriculum and activities to preserve and promote traditional knowledge and cultural heritage. Initiatives such as a **6 days program on Sculpture Reading with field visit, Yoga and Silambam**, were undertaken to preserve cultural heritage.
7. **IOT projects:** The Departments of Computer Science and Application trained students to undertake 8 projects using IOT. This training facilitates the transfer of knowledge and technology from the college to industry partners, start-ups, and society, ensuring the practical application of innovations.
8. **MOUs for Collaborative Research and Internships:** Over the last five years, the College has signed **21 MOUs** with industries, research institutions, labs, and organizations to promote collaborative research, internships, and job placements. These partnerships are beneficial for both teachers and students.
9. **Women Development Cell:** The **College's Women Development Cell** nurtures an entrepreneurial spirit by providing training and networking opportunities for students and faculty to develop innovative start-ups and social enterprises.
10. **Extension Activities and Outreach Programs:** The College has two functional units of NSS and several clubs, such as the **Leo Club, Youth Red Cross, Enviro-Club, Electoral Literacy Club, IIC, etc.**, providing extension activities. Over the last five years, **488 extension activities** and outreach programs were organized, with 80% student participation.

This ecosystem has created a vibrant innovation culture, empowering students, faculty, and the wider community to harness Indian knowledge systems for sustainable growth and development.

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