

# PAMODA WIKARSHANI

Agricultural Technology and Management Graduate

Department of Agricultural Biology, Faculty of Agriculture, University of Peradeniya, Sri Lanka

☎ 0752866956 ✉ wikarshanip@gmail.com [in www.linkedin.com/in/pamoda-wikarshani-01b5b9397](https://www.linkedin.com/in/pamoda-wikarshani-01b5b9397)

## EDUCATION

---

**Bachelor of Science in Agricultural Technology and Management (Honors)** **June 2021– Nov 2025**

Faculty of Agriculture  
University of Peradeniya  
Second Class Upper Division Honors  
GPA: 3.52 out of 4.00

**Area of Specialization** - Plant Pathology and Microbiology.

**Core Subject Areas** - Soil Science, Crop Science, Agricultural Biology, Animal Science, Agricultural Economics & Business Management, Agricultural Extension, Food Science & Technology, Agricultural Engineering.

**Subjects Followed Under the Area of Specialization** - Plant Pathology, Microbiology, Clinical Plant Pathology, Pesticide Management, Scientific Research and Communication in Biology, Post-harvest Pathology, Virology, Microbial Biotechnology, Agricultural and Environmental Microbiology, Practicum in Molecular Microbiology, Applied Genetics and Plant Breeding.

**G.C.E. Advanced Level Examination** **Aug 2019**

Mahamaya Girls' College, Kandy, Sri Lanka  
Major: Biology- A | Agriculture- A | Chemistry- C

**G.C.E. Ordinary Level Examination** **Dec 2015**

Mahamaya Girls' College, Kandy, Sri Lanka  
6 A's, 2 B's, C

## RESEARCH

---

**Evaluating the Efficacy of Formulated Nano-Enabled Biotic Elicitors as a Seed Treatment in Controlling Soil Borne Diseases of Selected Solanaceous Vegetable Crops** **July 2025– Nov 2025**

Undergraduate Research Project

Department of Agricultural Biology, Faculty of Agriculture, University of Peradeniya

Supervisors: Prof. Devika M. De Costa, Mr. K.D.R.C. Rienzie

- FgDNA of *S. rolf sii* formulated with montmorillonite and hydrotalcite effectively suppressed the natural soil-borne infections in tomato, brinjal, and chilli
- The developed nanocomposites significantly enhanced seed germination, speed of seed germination, and seedling vigour of all three crops

## CONFERENCE PROCEEDINGS

---

**Wikarshani, W.A.P., De Costa, D.M. and Rienzie, K.D.R.C. (2025), "Evaluating the Efficacy of Formulated Nano-Enabled Biotic Elicitors as a Seed Treatment in Controlling Soil-Borne Diseases of Selected Solanaceous Vegetable Crops", Faculty of Agriculture Undergraduate Research Symposium (FAuRS 2025) – Faculty of Agriculture, University of Peradeniya, Sri Lanka, 07 November 2025.**

## AWARDS

---

**Second runners up- Invention and Innovation Award** **Nov 2025**

**"Evaluating the Efficacy of Formulated Nano-Enabled Biotic Elicitors as a Seed Treatment in Controlling Soil-Borne Diseases of Selected Solanaceous Vegetable Crops"**  
**Faculty of Agriculture Undergraduate Research Symposium (FAuRS 2025)**

Faculty of Agriculture, University of Peradeniya, Sri Lanka

## PROFESSIONAL QUALIFICATIONS AND EXPERIENCE

---

<b>Volunteer Research Assistant – Plant Pathology &amp; Microbiology Division</b>	<b>2025 Nov-present</b>
Department of Agricultural Biology, Faculty of Agriculture University of Peradeniya, Peradeniya, Sri Lanka	
<b>Workshop on Digital Marketing</b>	<b>2025</b>
Department of Agricultural Economics and Business Management, Faculty of Agriculture, University of Peradeniya	
<b>Volunteer</b>	<b>2019-2021</b>
<b>Dhamma School Teacher</b>	
<b>Member of the “Student Skills Development Evaluation Board” (Jude Board)</b> organized by the Ministry of Buddha Sasana	
<b>DhammaSchools Final Certificate</b>	<b>2019</b>
Achieved grades in multiple Buddhist studies subjects	
<b>General Information Technology Examination</b>	<b>2018</b>
SBA Level 2: High-Level Competency	
<b>APIIT leadership Development Programme</b>	<b>2017</b>
Association with KSPPA	
<b>Diploma in English</b>	<b>2016</b>
Infortec International	

## ENGLISH PROFICIENCY

---

The medium of Instruction for the completed BSc degree was English.

## TECHNICAL SKILLS

---

### In Molecular Microbiology

- **Microbial Culturing**
- **DNA Extraction:** Bacterial, fungal, and viral genomic DNA extraction, plasmid DNA extraction
- **Molecular Techniques:** PCR amplification, Gel electrophoresis, DNA quantification
- **Cloning Techniques:** Preparation of competent cells, transformation, and recombinant cloning
- **Aseptic Techniques**

### In Plant Pathology

- Plant Disease Diagnostics
- Disease Management Techniques

## PROJECTS

---

### Climate Change Action Ambassador Project

**2024- 2025**

University of Peradeniya, HSBC and Janathakshan  
Developed sustainable solutions to reduce urban heat island in Kandy

## Community Empowerment Through Sociological and Psychological Approaches

2024- 2025

Vermicompost Project for Meegahamadiththa Village Women

- Guided and monitored the Meegahamadiththa women's community in adopting vermicompost production as a sustainable livelihood

## Vermicompost Project

2024

University of Peradeniya, IAAS Sri Lanka

## ASSOCIATIONS

---

### School Senior Prefect (2017/2018)

Mahamaya Girls' College Kandy

### School Junior Prefect (2016/2017)

Mahamaya Girls' College Kandy

### Senior Member of Eastern Band (2013/2017)

Mahamaya Girls' College Kandy

### Senior Guider – Girl Guides Association (2014/2016)

Mahamaya Girls' College Kandy

### Member of Sri Lanka Girl Guides Association (2012/2016)

## SOCIAL DEVELOPMENT ACTIVITIES

---

Engaged in the "Vermicompost Project" to empower village women (2024).

## EXTRACURRICULAR ACTIVITIES

---

### Champions at Inter faculty Freshers tournament (2023)

University of Peradeniya

2<sup>nd</sup> Runner-up Girls' Kumite – Karate Championship

2<sup>nd</sup> Runner-up – Taekwondo Championship

## REFERENCES

---

### Prof. Devika M. De Costa

Senior professor and chair of plant protection

Department of Agricultural Biology

Faculty of Agriculture

University of Peradeniya

☎ 0714430542



[dmdcosta@agri.pdn.ac.lk](mailto:dmdcosta@agri.pdn.ac.lk)

### Mr. K.D.R.C. Rienzie

Lecturer (Probationary)

Department of Agricultural Biology

Faculty of Agriculture

University of Peradeniya

☎ 0774347858



[ryanrienzie@agri.pdn.ac.lk](mailto:ryanrienzie@agri.pdn.ac.lk)