

ASSIGNMENT FORM

Purpose: to collect the information required for flight ticket booking, hotel accommodation, and local transportation arrangements for IMW ITB 2026.

A. Guest Information

Full name as written in passport	Mohammad Rizka Fadhli
Preferred title	Mr.
Institution / affiliation	PT. Nutrifood Indonesia
Position / role	Market Research Specialist
Nationality	Indonesian
Date of birth	Dec 21, 1986
Email address	ikanx101@gmail.com rizka.fadhli@nutrifood.co.id
Mobile / WhatsApp number	0851 1708 2871
Emergency contact name and phone	0877 7581 7077

B. Hotel Accommodation Information

Check-in date	Sunday, 12 July 2026
Check-out date	Tuesday, 14 July 2026
Room preference	☐ Single ☒ Twin ☐ Other: _____
Smoking preference	☒ Non-smoking ☐ Smoking ☐ No preference
Special requests / accessibility needs	

C. Local Transportation Information

Airport pickup required	☐ Yes ☒ No
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Drop-off / return airport transfer required	☐ Yes ☒ No
Hotel to ITB venue transportation	☐ Yes ☒ No
Transportation to official dinner	☒ Yes ☐ No
Other transportation notes	I will drive myself from Jakarta to Bandung

D. Academic Materials and Program Information

Summer course theme/title	Solving the Transporter Problem in an FMCG Company Using Dynamic Spiral Optimization Algorithm
Summer course short outline	1. Company Overview: Nutrifood - Brief introduction to Nutrifood as an Indonesian FMCG company in food & beverage - Distribution model: direct shipment from two manufacturing plants to customers (distributors & retailers) - Scale and complexity of daily distribution operations 2. The Distribution Optimization Problem - Three-layer problem: - Fleet selection — which vehicles to deploy - Scheduling — when each vehicle departs - Routing — which path each vehicle takes - This is a variant of the Vehicle Routing Problem (VRP), which is NP-hard - Business stakes: cost efficiency, on-time delivery, vehicle utilization 3. Data & Problem Preparation - Available data: fleet master data, customer master data, sales order data

	- Key preparation step — Customer Clustering: - Before optimization, customers are grouped into route clusters - Clustering reduces solution space and reflects real-world delivery zones - Methods: geographic clustering - Output of preparation: structured input ready for the optimization algorithm 4. The Dynamic Spiral Optimization Algorithm - What it is: a metaheuristic inspired by spiral movement patterns in nature - Why it was chosen: - Simple and intuitive mathematical formulation - Coding implementation is straightforward and readable - Good convergence behavior on moderate-dimension problems - How it works: agents spiral toward the best-known solution across iterations - Known limitation: performance degrades as solution dimensionality grows — the spiral search becomes less efficient in high-dimensional spaces - Implication for this project: clustering (Step 3) is not just preparation — it directly controls dimensionality and is critical to algorithm performance Closing - Results & benchmarking against baseline routing - Lessons learned and future directions (hybrid approaches, dimensionality handling)
Problem(s) / case exercises to be provided	[X] Yes [] No [] To be confirmed

Short biography attached	☒ Yes ☐ No
Profile photo attached	☒ Yes ☐ No

E. Confirmation

I confirm that the information provided above is correct and may be used by the IMW ITB 2026 Organizing Committee for official travel, accommodation, and event administration purposes.

Name	Mohammad Rizka Fadhli
Date	June 18, 2026
Address	Cluster Citra Residence G7, Duren Jaya, Bekasi Timur, Kota Bekasi
Institution	PT. Nutrifood Indonesia
Signature	