



DR. MARINAH BINTI OTHMAN

PENSYARAH UNIVERSITI DS13

CONTACT

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Address: Fakulti
Kejuruteraan Dan Alam Bina

SUPERVISION

PhD - Completed: 0, Ongoing: 2

Master - Completed: 1, Ongoing: 1

AREAS OF EXPERTISE

Optical/photonic Sensor

Computational Simulation And Modelling

Semiconductor Materials And Devices Physics

BIOGRAPHY

A lecturer from Fakulti Kejuruteraan Dan Alam Bina. Holds a Phd in Laser.

ACADEMIC QUALIFICATION

Phd in Laser (2010)

Master in Engineering Science (2002)

Bachelor in Electronic & Electrical Engineering (1998)

RESEARCH

1. UAV-BASED AUTOMATED OIL PALM TREE DETECTION AND COUNTING

2025 ON GOING MAIN RESEARCHER

2. SURFACE PLASMON RESONANCE-BASED PHOTONIC CRYSTAL FIBER SENSOR FOR ACCURATE MICROPLASTIC DETECTION IN WATER USING ARTIFICIAL NEURAL NETWORKS

2025 ON GOING MAIN RESEARCHER

PUBLICATION

1. SINGLE MODE FIBER BASED SPR SENSOR FOR THE DETECTION OF AIR CONTAMINANTS

2024 PROCEEDING

2. SURFACE PLASMON RESONANCE BASED PCF SENSOR FOR DOM DETECTION

2024 PROCEEDING

3. A COMSOL MULTIPHYSICS FOR POLY (VINYL-ALCOHOL) PVA HYDROGEL EFFECT ON PHOTOVOLTAIC SOLAR CELL BY USING HEAT TRANSFER MODULE

2024 PROCEEDING

4. TEMPERATURE DEPENDENT GAIN AND NOISE ANALYSIS OF AN ERBIUM DOPED FIBER AMPLIFIER WITH DIFFERENT PUMPING CONFIGURATIONS

2024 CHAPTER IN BOOK

5. DESIGN OF SINGLE STAGE C BAND ERBIUM DOPED FIBER AMPLIFIER (EDFA) FOR OPTICAL COMMUNICATIONS

2023 CHAPTER IN BOOK

6. DESIGN OF SINGLE STAGE C BAND ERBIUM DOPED FIBER AMPLIFIER (EDFA) FOR OPTICAL COMMUNICATION

2023 CHAPTER IN BOOK

7. OUTCOME-BASED EDUCATION FOR ENGINEERING PROGRAMME: A CASE STUDY OF USIM

2019 BOOK

8. PHOTOVOLTAIC TECHNOLOGY: A REVIEW

2019 CHAPTER IN BOOK

9. IMPROVING GSM SECURITY BY ENHANCING THE RANDOMNESS PROPERTY OF THE A5/1 DESIGN

2015 JOURNAL

CONSULTATION/ADULATION

1. FASILITATOR PROGRAM "TRAINING ON CURRICULUM DEVELOPMENT", INSTITUT AGAMA ISLAM NEGERI (IAIN) WALISONGO INDONESIA

2013 INTERNATIONAL INSTITUT AGAMA ISLAM NEGERI (IAIN) INDONESIA

AWARDS/RECOGNITION

1. ANUGERAH STAF CONTOH FAKULTI

2025 OTHERS

2. CONCEPTUAL MODELLING OF GOLD AUTHENTICATION SYSTEM BASED ON ULTRASOUND PROPAGATION ANALYSIS

2025 Antarabangsa Gold

3. ACADEMIC ADVISOR

2023 NATIONAL

4. ACADEMIC ADVISOR

2022

NATIONAL

5. ACADEMIC ADVISOR

2022

UNIVERSITY