

Exam Week 1: MSG491 and MSS492 Presentation

Semester 2 2024/2025

15/07/2025	Tuesday	Student(s) Name	Title	Supervisor
Day 1				
BT105	3.20 – 3.50 pm	Emelda Minin	Estimating Skin Permeation Parameters Via Diffusion Model Fitted with Particle Swarm Optimization	Assoc . Prof. Dr. Teh Su Yean
Day 2				
16/07/2025	Wednesday	Student(s) Name	Title	Supervisor
BT105	9.30 - 10.00 am	Wan Muhammad Isyraf	Invertible Neural Network	Assoc . Prof. Dr. Gobithaasan
	10.05 – 10.35 am	Muhammad Shakur Adlan Bin Muhammad Syahidan Muhammad Syafiq Bin Sarial	Labour Market Classification using Machine Learning and Income Analysis in Malaysia	Dr. Muhammad Fadhil Marsani
	10.40 – 11.10 am	Chuah Jong Sik Looi Xin Tong	Stress Detection in Social Media using Multimodal Approach: Exploring Traditional and Neural Network Models	Dr. Muhammad Fadhil Marsani
	11.15 – 11.45 am	Irna Farisha binti Abdullah Noor Shahmeha binti Mohd Khairi	FDI Inflows In Malaysia: The Multiple Linear Regression Analysis	Dr. Rosmanjawati Abdul Rahman
	11.50 am – 12.20 pm	Hana Fatiha binti Mazlan Nur Khalishah Afina binti Mohd Zamri	The Impact of Covid-19 Pandemic on the Influence of Economic Growth Determinants in Malaysia	Dr. Zainudin Arsad
	12.25 – 12.55 pm	Anis Syaza Yusnieza binti Rostam Nur Aida Amirah binti Che Ibrahim	Modeling and Forecasting Tourism Demand by European Countries using SARIMA Model	Dr. Zainudin Arsad
BT106	10.05 – 10.35 am	Nur Syazierra binti Zailan Kamaruddin	Comparative Study on Timetable Scheduling Algorithms	Dr. Nabilah Najmuddin
	10.40 – 11.10 am	Nur Ily Maisarah binti Rizal	Optimisation of Appointment Scheduling System for Dental Services at Klinik Kesihatan Selandar	Dr. Nabilah Najmuddin
	11.15 – 11.45 am	Raja Nur Shafini Dania binti Raja Zainuri	Review on Supply Chain Network Under Certain Situations	Dr. Nabilah Najmuddin
	11.50 am – 12.20 pm	Nurul Azliana binti Mohd Yusof	Review of Network Flow Problems in Road Traffic Systems	Dr. Nabilah Najmuddin
BT106	2.45 – 3.15 pm	Nur Asyikin binti Mohamad Redzuan	Optimisation of Bus Scheduling in USM Main Campus	Dr. Nabilah Najmuddin
	3.20 – 3.50 pm	Nur Farah Athirah binti Muhammad Piso	Optimisation of the Routing Parcel Delivery for J&T Express Changlun in Kubang Pasu	Dr. Nabilah Najmuddin

17/07/2025	Thursday	Student(s) Name	Title	Supervisor
Day 3				
BT105	9.30 - 10.00 am	Chew Huat Seng	Forecasting USD/MYR and SGD/MYR Exchange Rates Using Genetic Algorithm-Optimized Long Short-Term Memory	Dr. Siti Amirah
	10.05 – 10.35 am	Nicholas Chan Wey Jie	Moonboard Grade Prediction with Machine Learning	Dr. Ong Wen Eng
	10.40 – 11.10 am	Lai Jia Hui Lee Shen Shien	Digging for Growth: A Sectoral Data Science Study on Malaysia's Economy	Dr. Ong Wen Eng
	11.15 – 11.45 am	Han Zeyu Liu Yijie	New Energy Vehicle Sales Prediction in China: A Comparison Between Statistical and Machine Learning Approaches	Dr. Ong Wen Eng
	11.50 am – 12.20 pm	Noranisha Binti Muhammad Nur Aina Syazwani Binti Bohari	Exploring the Impact of Population Ageing on Unemployment in Singapore	Dr. Law Chee Hong
	12.25 – 12.55 pm	Chan Joe Ning Kho Kai Yun	How Influential the Global Uncertainties on FDI? A DNARDL Approach	Assoc . Prof. Dr. Sek Siok Kun
	2.45 – 3.15 pm	Jl xinge Hao Jiaao	Predictive Modeling of Meteorological Time Series in Australia	Dr. Muhammad Fadhil Marsani
	3.55 – 4.25 pm	Noubitaa Angela a/p James Sneha a/p Pirahalathan	Seasonal and Non-Seasonal ARIMA Modelling for PM2.5 Concentration Prediction in Johor	Dr. Norhashidah Awang
BT106	9.30 - 10.00 am	Kelvin Cheng Kok Bing Lee Jian Ze	Examining Volatility Spillover Effect between Bitcoin and Ethereum: Evidence from Multivariate Garch and Wavelet Analyses	Assoc . Prof. Dr. Sek Siok Kun
	10.05 – 10.35 am	Loke Jia Jun Alvina Yii Yee Ling	Evaluating the Impact of BRI towards Greener Energy and Carbon Neutrality	Assoc . Prof. Dr. Sek Siok Kun
BT106	10.40 – 11.10 am	Lee Wei Timothy Wong Jun Heng	Examining the Impact of Governance Indicators on Economic and Sustainability Performance	Assoc . Prof. Dr. Sek Siok Kun
	2.10 – 2.40 pm	Muhammad Afif Fahmi Bin Anuar	Smooth Curve Using Bezier Quadratic Polynomials	Dr. Kong Voon Pang
	2.45 – 3.15 pm	Edward Ngui Shi Jie	Multivariate Time Series Forecasting on Malaysian Private Consumption - A Machine Learning Approach	Dr. Ong Wen Eng

Exam Week 2: MSG491 and MSS492 Presentation

Semester 2 2024/2025

21/07/2025	Monday	Student(s) Name	Title	Supervisor
Day 1				
BT105	9.00 - 9.30 am	Ayu Syafiqah Norhisham Puteri Ayu Juliana Mohd Ramhizi	Sea Level Prediction in Malaysian Coastal Cities Using ARIMA and Regularized Linear Models	Dr. Muhammad Fadhil Marsani
	9.30 - 10.00 am	Hasliza binti Abbas	2 Satisfiability in Discrete Hopfield Neural Network using Election Algorithm	Assoc. Prof Dr. Mohd Shareduwan Mohd Kasihmuddin
	10.05 – 10.35 am	Ain Suraya Binti Basri	2 Satisfiability in Discrete Hopfield Neural Network using Sine Cosine Algorithm	Assoc. Prof Dr. Mohd Shareduwan Mohd Kasihmuddin
	10.40 – 11.10 am	Nur Anis Amani binti Zulkefli	2 Satisfiability in Discrete Hopfield Neural Network using Differential Evolution Algorithm	Assoc. Prof Dr. Mohd Shareduwan Mohd Kasihmuddin
	11.15 – 11.45 am	Nur Dina Nadia binti Mohd Fuad	Random 2 Satisfiability in Discrete Hopfield Neural Network through Clonal Selection Algorithm	Assoc. Prof Dr. Mohd Shareduwan Mohd Kasihmuddin
	11.50 am – 12.20 pm	Nurul Aida binti Maznim	2 Satisfiability in Discrete Hopfield Neural Network using Black Hole Algorithm	Assoc. Prof Dr. Mohd Shareduwan Mohd Kasihmuddin
	12.25 – 12.55 pm	Intan Nuraini binti Ahmad Lotfi	2 Satisfiability in Discrete Hopfield Neural Network using Binary Whale Optimization Algorithm	Assoc. Prof Dr. Mohd Shareduwan Mohd Kasihmuddin
	2.10 – 2.40 pm	Ummi Umara Binti Ahmad Fuad	3 Satisfiability in Discrete Hopfield Neural Network using Differential Evolutionary Algorithm	Assoc. Prof Dr. Mohd Shareduwan Mohd Kasihmuddin
	2.45 – 3.15 pm	Norizzati Binti Mohamed Thoyib	2 Satisfiability in Discrete Hopfield Neural Network using Clonal Selection Algorithm	Assoc. Prof Dr. Mohd Shareduwan Mohd Kasihmuddin
	3.20 – 3.50 pm	Nur Khameela Binti Saidin	3 Satisfiability in Discrete Hopfield Neural Network Using Artificial Bee Colony Algorithm	Assoc. Prof Dr. Mohd Shareduwan Mohd Kasihmuddin
3.55 – 4.25 pm	Nur Syamimi binti Mohd Fadzli	Random 2 Satisfiability in Discrete Hopfield Neural Network using Genetic Algorithm	Assoc. Prof Dr. Mohd Shareduwan Mohd Kasihmuddin	
BT106	9.30 - 10.00 am	Yang Jinrui Wang Sib0	Inventory Control System Application of Chips Processing in XYZ Enterprise	Assoc. Prof. Dr. Majid Khan Majahar Ali
	10.05 – 10.35 am	Nurain Balqis binti Nazaruddin	Topological Data Analysis Approach on Flood Detection in Alor Setar, Kedah	Assoc. Prof. Dr. Majid Khan Majahar Ali

BT106	10.40 – 11.10 am	Shannon Charlotte Langgi	Aximising Fast Food Chain Profitability Through Optimized Pricing	Assoc. Prof. Dr. Majid Khan Majahar Ali
	11.15 – 11.45 am	Kho Lian Seng Tsok Ying Chao	Solid Waste Management using VENSIM	Assoc. Prof. Dr. Majid Khan Majahar Ali
	11.50 am – 12.20 pm	Ashvin Nair Benjamin Washington	Forecasting Rubber Prices in Malaysia: An Econometric Approach Using Ordinary Least Squares and Eight Model Selection Criteria	Assoc. Prof. Dr. Majid Khan Majahar Ali
	12.25 – 12.55 pm	Raveenkumar A/L Ganesan Navin A/L Palmanaban	Thermodynamic Performance Assessment of a Black Pepper Drying System using Energy and Exergy Analysis	Assoc. Prof. Dr. Majid Khan Majahar Ali
	2.10 – 2.40 pm	Sam Wei Hung Tu Ger Harnng	Exploring Predictive Analysis with Tableau Insurers' Numbers: Before, During, and After COVID-19	Assoc. Prof. Dr. Majid Khan Majahar Ali
	2.45 – 3.15 pm	Fatin Fakhira binti Mazlan Nurin Amanina binti Ahmad Zaidi	An ARMA Model Approach to Forecasting the Malaysian Stock Market Index by Using E-Views and R Studio	Assoc. Prof. Dr. Majid Khan Majahar Ali
	3.20 – 3.50 pm	Aisyah binti Khalil Nurmasyitah binti Mohamad Nor	Dutch Auction with Non-linear Programming Approach and Random Numbers of Bidders	Assoc. Prof. Dr. Majid Khan Majahar Ali
3.55 – 4.25 pm	Ermina Balqis binti Harizan	Optimization of Production Resource Management in Manufacturing Industry using Powersim	Assoc. Prof. Dr. Majid Khan Majahar Ali	

22/07/2025	Tuesday	Student(s) Name	Title	Supervisor
Day 2				
BT105	9.30 - 10.00 am	Nur Aina Batrisyia binti Mohd Anuar	Modelling Public Opinion Propagation in Technological Disasters	Dr. Amirah Azmi
	10.05 – 10.35 am	Afifah Sofwa binti Mohamad	Mathematical Relation between Collision Risk and Speed	Dr. Amirah Azmi
	10.40 – 11.10 am	Nurain Syafiqah binti Yasin	Modeling the Impact of Peer Pressure on Obesity Dynamics	Dr. Amirah Azmi
	11.15 – 11.45 am	Nurnazifa binti Mior	Analyzing the Dynamics of Social Media Addiction: A Mathematical Modeling Approach	Dr. Amirah Azmi
	11.50 am – 12.20 pm	Nur A'isyah binti Kamil Arif Ammar Wajdi bin Roshidan	The Impact of Outliers on Estimates and Hypothesis Testing in Two-Way Anova	Dr. Syaiba Balqish Ariffin
	12.25 – 12.55 pm	Teoh Jian Ting Ng Kin Lik	The Turn-of-the-Month and Holiday Effects in Six Selected Stock Indices	Dr. Zainudin Arsad
BT105	2.10 – 2.40 pm	Nur Zahira Mohd Nasir	Comparative Analysis of The Finite Difference Method and Differential Transformation Method for Solving the SIR Epidemic Model with Time Dependent Vaccination: A Case Study of Influenza in Malaysia	Assoc. Prof. Dr. Saratha Sathasivam
	2.45 – 3.15 pm	Nur Faiqah Jannah binti Marizan Sarah Sabreina binti Zamri	The Path to Environmental Sustainability in Asean-5 Economies: Unveiling the Role of Environmental Innovation and Governance	Dr. Mohsen Ayyash
	3.20 – 3.50 pm	Zhi Fei Yu Cai Zhengzhong	Causes of Depression and Related Behaviors	Dr. Teng Mei Tuan
	3.55 – 4.25 pm	Peh Zhi Qing Wai Zi Xin	Multivariate Analysis of Air Quality in Malaysia: A Canonical Correlation Analysis of Air Pollutants and Meteorological Variables	Dr. Norhashidah Awang
	9.30 - 10.00 am	Phoon Sai Hung	Solving National Bus Routing Problem to Famous Locations in Peninsular Malaysia using Genetic Algorithm	Dr. Adila Aida Azahar
	10.05 – 10.35 am	Muhammad Haziq bin Mustapha	Integrated Lane Design and Signal Timing Adjustment for Enhanced Traffic Flow: A Sumo Simulation Study at Usm Stadium Gate Intersection	Dr. Siti Amirah Abd Rahman
	10.40 – 11.10 am	Nurnashita binti Husnisham	Allocating Students to Hostels at USM Main Campus using Genetic Algorithm	Dr. Siti Amirah Abd Rahman
	11.15 – 11.45 am	Siti Nur Nasuha binti Suhairi	Grayscale Digital Image Watermarking using Genetic Algorithm	Dr. Siti Amirah Abd Rahman

BT106

11.50 am – 12.20 pm	Lovina Chia anak Majang	Solving the Sports League Scheduling Problem for Malaysia Super League using Tabu Search	Dr. Siti Amirah Abd Rahman
12.25 – 12.55 pm	Nurulnabila binti Ya'acob Nurul Salihah binti Abdullah	Solving the Fuel Delivery Problem using K-Nearest Neighbour Algorithm	Dr. Siti Amirah Abd Rahman
2.10 – 2.40 pm	Nur Syahirah Mohd Nazri Nur Syazmalia Hanim Jamaludin	Construction of Socio-economic Status (SES) Index using Factor Analysis for Every District in Malaysia for Year 2022	Dr. Nuzlinda Abdul Rahman
2.45 – 3.15 pm	Nur Afiqah binti Ahmad Hilmi	A Queuing System Simulation for Analysing Service Performance in a Retail Setting	Dr. Noor Saifurina Nana Khurizan
3.20 – 3.50 pm	Lee Xin Yong	Optimizing Inventory Control for Perishables in a Store	Dr. Siti Amirah Abd Rahman
3.55 – 4.25 pm	Lee Joo Yee	Mean and Volatility Spillovers among Stock Prices, Oil Prices and Exchange Rate	Dr. Zainudin Arsad

23/07/2025	Wednesday	Student(s) Name	Title	Supervisor
Day 3				
BT105	9.30 - 10.00 am	Akhyar bin Saud	The Relationship between Corruption and Economic Variable in Malaysia	Assoc. Prof. Dr. Mohd Tahir Ismail
	10.05 – 10.35 am	Mark Lim	Foundations of Mathematics	Dr. Shamani Supramaniam
	10.40 – 11.10 am	Mohamad Luqman bin Mohd Razali	Introduction of Fourier Analysis	Dr. Ng Zhen Chuan
	11.15 – 11.45 am	Law Sim Boey	Dynamical Systems Analysis of a Holling Type-II Predator-Prey Model with Prey Refuge: Insights into Biodiversity and Sustainable Ecosystem Management	Assoc. Prof. Dr Mohd Hafiz Mohd
	11.50 am – 12.20 pm	Lim Xu Yao	Homology Theories and Applications	Dr. Johnny Lim Khai Yang
	12.25 – 12.55 pm	Daniel Tan Ze Sheng	On Energy and Spectrum Self-loop Graphs	Dr. Noor A'lawiah binti Abd Aziz
	2.10 – 2.40 pm	Nurliana binti Ishak Sarah Qistina binti Azlisham	Clustering Shopping Trends: A Machine Learning Approach	Dr. Nur Fariha Syaquina Mohd Zulkepli
	2.45 – 3.15 pm	Muhammad Syafiq Irfan bin Rakhidin	Topological Graph Representation of COVID-19 Using The Mapper Algorithm	Dr. Nur Fariha Syaquina Mohd Zulkepli
	3.20 – 3.50 pm	Hidayati Rauhah binti Hasmadi Aliyah binti Muhammad Lutfi	A Comparative Analysis of Advanced Regression Techniques for Predicting Pm2.5 Air Quality in Kuala Lumpur, Malaysia	Dr. Nur Fariha Syaquina Mohd Zulkepli
	3.55 – 4.25 pm	Nik Nur Farah Wahdani binti Azman	Hybrid Approach to Emergency Transportation Decision-making using Optimization and Neutrosophic-Topsis	Dr. Nur Fariha Syaquina Mohd Zulkepli
BT106	9.30 - 10.00 am	Muhammad Amirul Azrie Bin Mohd Zaki	Application of Genetic Algorithm for Vehicle Routing with Time Window (VRPTW): A Case Study of MBPP Waste Collection	Dr. Noor Saifurina Nana Khurizan
	10.05 – 10.35 am	Muhammad Haziq Bin Ab Ghani	Ant Colony Optimization Algorithm for Bus Route Planning Problem in Penang	Dr. Noor Saifurina Nana Khurizan
	10.40 – 11.10 am	Nur Shafiqah Binti Hainooddin Nursaffa Aniqah Binti Sahrudin	Optimizing Bahasa Melayu Teaching Schedule Using Particle Swarm Optimization	Dr. Noor Saifurina Nana Khurizan
	11.15 – 11.45 am	Nur Aina Bahiah binti Abu Supian	Application of Tabu Search for Uncapacitated Vehicle Routing Problem with Randomized Customer Assignment and Route Visualization	Dr. Noor Saifurina Nana Khurizan
	11.50 am – 12.20 pm	Noor Hazliatie Binti Ahmad Nazri	Application of Genetic Algorithm to School Timetabling Problem	Dr. Noor Saifurina Nana Khurizan

BT106	12.25 – 12.55 pm	Nur Athifah Nabihah Binti Mohd Noor Nur Farah Sorfina Binti Mohd Tarmizi	Optimisation of Bus Scheduling using Integer Linear Programming: A Case Study of Rapid Kuantan	Dr. Noor Saifurina Nana Khurizan
	2.10 – 2.40 pm	Muhammad Aidil Syahmi bin Hamidi	Geospatial Assessment of Hydrometeorological Processes in Pulau Pinang using Remote Sensing-Based Environmental Indicators	Assoc. Prof. Dr. Mohd Tahir Ismail
	2.45 – 3.15 pm	Phang Xuan Annabelle Chong Hui Ting	Determinants of the Bilateral trade Balance Between Malaysia and BRICS countries: An ARDL Cointegration Analysis	Dr. Rosmanjawati Abdul Rahman
	3.20 – 3.50 pm	Jalalludin Ameen	A survey on the impact of Daily Habits on Academic Performance among Undergraduate students in Universiti Sains Malaysia	Dr. Adila Aida Azahar

24/07/2025	Thursday	Student(s) Name	Title	Supervisor
Day 4				
BT105	9.30 - 10.00 am	Muhammad Fahmi bin Mohd Harnizi	Identifying Metacyclic <i>P</i> -Groups Based on Their Order	Dr. Azhana Ahmad
	10.05 – 10.35 am	Nur Syaheila binti Rashid	Utilisation of Manim for Mathematical Animation	Dr. Azhana Ahmad
	10.40 – 11.10 am	Muhammad Esma Danial Talib	Unsteady Spreading of a Thin Viscous Fluid Film on a Horizontal Surface	Dr. Yazariah Mohd Yatim
	11.15 – 11.45 am	Muhammad Amirul Shafiq Amiruddin	Blasius Flow in Metallic and Non-metallic Nanofluids	Dr. Syakila Ahmad
	11.50 am – 12.20 pm	Nor Syafika Othman	MHD Boundary Layer Flow and Heat Transfer over a Flat Plate in Casson Ferrofluid with the Effects of Viscous Dissipation and Slip	Dr. Norshafira Ramli
	12.25 – 12.55 pm	Amirul Husaini Mohd Azha	Sakiadis Flow in Metallic and Non-metallic Nanofluids	Dr. Syakila Ahmad
	2.10 – 2.40 pm	Chia Wei Heng	Search Engine Optimization of Knowledge Articles Using Principal Component Analysis and K-Means Clustering	Dr. Fam Pei Shan
	2.45 – 3.15 pm	Tay Linyuan	A Comprehensive Empirical Evaluation Of Disaster Preparedness Behaviour (DPB) using Structural Equation Modelling (SEM): A Case Study in Penang Island	Dr. Fam Pei Shan
	3.20 – 3.50 pm	How Mun Lap Loh Pui Yee	Anomalies Detection in Finance and Human Resource Datasets	Dr. Fam Pei Shan
	3.55 – 4.25 pm	Ng Zi Ying	Enhancing Financial Term Recognition: A Comparative Study on Pre-Trained Text Embedding Models and Adapter Training	Dr. Fam Pei Shan
BT106	11.50 am – 12.20 pm	Yang Wuying	Comparison of Root-finding Iterative Methods	Dr. Yazariah Mohd Yatim
	12.25 – 12.55 pm	Nurshafikah binti Rahimin	Enhancing Food Delivery Efficiency Through Genetic Algorithm-Based Route Optimization	Dr. Adila Aida Azahar
	2.10 – 2.40 pm	Alifa binti Mohamad Khalid Tan	Matrix Decompositions and their Real-world Applications	Dr Azhana Ahmad
	2.45 – 3.15 pm	Ummu Ainul Izzaty Mohd Fuad	Traffic Prediction in Georgetown using Machine Learning Techniques	Assoc. Prof. Dr. Md Yushalify Misro
	3.20 – 3.50 pm	Uswatul Huda binti Ramli	Optimizing Postman Pickup Routes using Genetic Algorithm	Dr. Adila Aida Azahar
	3.55 – 4.25 pm	Wan Nur Ain Farisha binti Mohd Sukri	Optimizing Traffic Light Timings in Jalan Sultan Azlan Shah to Reduce Congestion and Improving Traffic Flow	Dr. Adila Aida Azahar