

**TITLE FOR MASTER PROJECT 1
SEMESTER II, SESSION 2009/2010**

KOD	TITLE	SUPERVISOR / CO SUPERVISOR	ASSESSERS
D01	Development of axial flow air swirler for emissions reduction from oil burner	Prof. Dr. Mohammad Nazri Mohd. Jaafar	
D02	Study On Droplet Size Of Kerosene	Prof. Dr. Mohammad Nazri bin Mohd Jaafar	Assoc. Prof Ir. Dr. Shuhaimi Mansor Dr. Istaz Nusyirwan
D03	Study On Droplet Size Of Biodiesel Blends	Prof. Dr. Mohammad Nazri bin Mohd Jaafar	Dr. Istaz Nusyirwan Assoc. Prof Ir. Dr. Shuhaimi Mansor
D04	Performance Study Of Biodiesel Blends On Burner System	Prof. Dr. Mohammad Nazri bin Mohd Jaafar	Dr. Istaz Nusyirwan Assoc. Prof Ir. Dr. Shuhaimi Mansor
D05	Performance Study Of Biodiesel Blends On Burner System Applying Air Staging	Prof. Dr. Mohammad Nazri bin Mohd Jaafar	Assoc. Prof Ir. Dr. Shuhaimi Mansor Dr. Istaz Nusyirwan
D06	Study On Droplet Size Of Diesel Fuel	Prof. Dr. Mohammad Nazri bin Mohd Jaafar	Assoc. Prof Dr. Tholuddin b Mat Lazim Dr. Istaz Nusyirwan
D07	Feasibility Study Of Using Biodiesel Blends In Gas Turbine Engine	Prof. Dr. Mohammad Nazri bin Mohd Jaafar	Assoc. Prof Dr. Tholuddin b Mat Lazim Assoc. Prof Ir. Dr. Shuhaimi Mansor
D08	Thermal analysis of radiation heat transfer in a furnace - a numerical solution of a fredholm integral equation.	Prof. Amer Nordin Darus	
D09	Thermal analysis of a ventially based fin array in a bounded region - a numerical experiment	Prof. Amer Nordin Darus	
D10	Heat Transfer Analysis From An Inclined Paraller Plater - Numerical Study	Prof. Amer Nordin Darus	Assoc. Prof Dr. Normah Mohd Ghazali En. Mohsin Seis
D11	Heat Transfer Analysis In A Curved Rectangular Diffuser - Numerical Method	Prof. Amer Nordin Darus	Dr. Mazlan bin Abdul Wahid Assoc. Prof Dr. Normah Mohd Ghazali
D12	Heat Transfer Analysis In A Cavity - Numerical Study	Prof. Amer Nordin Darus	Dr. Mazlan bin Abdul Wahid En. Mohsin Seis
D13	Pelletisation and Carbonization of Solid Biofuel	Prof. Dr. Farid Nasir Hj. Ani	
D14	Combined Solar Thermal and Wind Powe System	Prof. Dr. Farid Nasir Hj. Ani	
D15	Design and Development of a Mini-Particulate Tunnel for Sampling of Diesel Particulates	Prof. Ir. Dr. Azhar Dato' Abdul Aziz	

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D16	New finite element formulations for thin heat transfer elements	Prof. Dr. Andreas Oechner /	
D17	Determination of The Flow Curve for Necking Tensile Specimens	Prof. Dr. Andreas Oechner / Prof. Dr. Mohd Nasir Tamin	
D18	Variable Stiffness and Mechanism	Prof. Dr. Roslan bin Abdul Rahman	
D19	FEA and Fatigue Life Prediction Of The Substructure Truck Chasis Component	Prof. Dr. Roslan bin Abdul Rahman Prof. Dr. Mohd Nasir b Tamin	
D20	Experimental Fatigue Life Determination Of Truck Chassis Substructure Component	Prof. Dr. Roslan bin Abdul Rahman Prof. Dr. Mohd Nasir b Tamin	
D21	Fatigue Life Prediction Of The Substructure Truck Chassis Component : Experimental Work	Prof. Dr. Roslan bin Abdul Rahman	
D22	Energy Harvester from Vehicle Dashboard Vibration- Experimental	Prof. Dr. Roslan bin Abdul Rahman	
D23	Energy Harvester from Vehicle Dashboard Vibration - Analytical	Prof. Dr. Roslan bin Abdul Rahman	
D24	Quality Weld From Vibration Excitation	Prof. Dr. Roslan bin Abdul Rahman	
D25	Numerical simulation of heat transfer in biological system microchannels	Assoc. Prof Dr. Normah Mohd. Ghazali	
D26	Study of Vortices in a Standing Wave Acoustic Chamber	Assoc. Prof Dr. Normah Mohd. Ghazali	
D27	Numerical Simulation of an Oscillating Flow in an Expanded Channel	Assoc. Prof Dr. Normah Mohd. Ghazali	
D28	Entropy Minimization Analysis of a Thermoacoustic Stack.	Assoc. Prof Dr. Normah Mohd. Ghazali	
D29	Resonant Frequency on Thermoacoustic Effects	Assoc. Prof Dr. Normah Mohd. Ghazali Prof. Dr. Roslan Abdul Rahman	
D30	Simulation of Multiple micro-Jet cooling microchip	Assoc. Prof Dr. Normah Mohd. Ghazali	
D31	Simulation of Fluid Flow With Suspended Nanoparticles	Assoc. Prof Dr. Normah Mohd. Ghazali	
D32	Simulation of A microchannle Heat Sink With Hot Spots	Assoc. Prof Dr. Normah Mohd. Ghazali	

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D33	Acoustic streaming in a thermoacoustic resonator	Assoc. Prof Dr. Normah Mohd. Ghazali	Prof. Amer Nordin bin Darus Dr. Mazlan bin Abdul Wahid
D34	Heat transfer analysis in a transparent furnace	Assoc. Prof Dr. Normah Mohd. Ghazali	Prof. Amer Nordin bin Darus Dr. Mazlan bin Abdul Wahid
D35	Analysis of heat transfer in a microchannel close to rarefaction effects	Assoc. Prof Dr. Normah Mohd. Ghazali	Prof. Amer Nordin bin Darus Dr. Mazlan bin Abdul Wahid
D36	Simulation Of Multiple Micro-Jet Cooling Of Microchip	Assoc. Prof Dr. Normah Mohd. Ghazali	Assoc. Prof Dr. Mohd Shafiek Yaacob Dr. Mazlan b Abdul Wahid
D37	Simulation OF Fluid Flow With Suspended Nanoparticles	Assoc. Prof Dr. Normah Mohd. Ghazali	Assoc. Prof Dr. Mohd Shafiek Yaacob Dr. Mazlan b Abdul Wahid
D38	Simulation Of A Microchannel Heat Sink With Hot Spots	Assoc. Prof Dr. Normah Mohd. Ghazali	Assoc. Prof Dr. Mohd Shafiek Yaacob Dr. Mazlan b Abdul Wahid
D39	Mixed Convection In A Heated Partitioned Lid-Driven Enclosure	Assoc. Prof Dr. Normah Mohd. Ghazali	
D40	Acoustic Streaming In A Thermoacoustic Resonator	Assoc. Prof Dr. Normah Mohd. Ghazali	
D41	Entropy Generation Minimization For Light Emitting Diode (LED) Stack Assembly	Assoc. Prof Dr. Normah Mohd. Ghazali	
D42	Mixed Convection in a Heated Partitioned Lid-Driven Enclosure	Assoc. Prof Dr. Normah Mohd. Ghazali	Dr. Mazlan b Abdul Wahid
D43	Acoustic streaming in a thermoacoustic resonator	Assoc. Prof Dr. Normah Mohd Ghazali	Dr. Mazlan b Abdul Wahid

D44	Virtual Museum	PM. Dr. Mohamad Kasim Abdul Jalil	
D45	Satellite detection of ships	PM. Dr. Omar Yaakob	
D46	Study Of Aerodynamic Noise Direction and Intensity Of A Side Mirror Of A Car	Assoc. Prof Dr. Tholudin bin Mat Lazim	Prof. Dr. Mohamad Nazri b Mohd Jaafar Dr. Istaz Nusyirwan
D47	Particle Image Velocimetry (PIV) Measurement Of Counter Rotating Vortex Pair In Cross Flow Development Of A Software Suite to Design Centrifugal Pump Blades	Assoc. Prof Dr. Tholudin bin Mat Lazim Assoc. Prof Dr. Abu Hasan bin Abdullah	Prof. Ir. Dr. Wan Khairuddin Prof. Wan Ali bin Wan Mat
D48	Automatic 2-D Mesh Generation of Centrifugal Pump Blade Passage Using Boundary-Fitted Coordinate System	Assoc. Prof Dr. Abu Hasan bin Abdullah	Prof. Wan Ali bin Wan Mat
D49	Automatic 2-D Mesh Generation Procedure for Unstructured Tetrahedral Grids	Assoc. Prof Dr. Abu Hasan bin Abdullah	Prof. Wan Ali bin Wan Mat
D50	Development Of A Software Suite for Analytical Turbocharger-Engine Matching For LP Turbocharging Of Passenger Car Gasoline Engine	Assoc. Prof Dr. Abu Hasan bin Abdullah	Prof. Wan Ali bin Wan Mat
D51	Analytical turbocharger-engine matching technique using a quasi-dynamic step-by-step computer program	Assoc. Prof Dr. Abu Hasan bin Abdullah	
D52	Automatic 2D mesh generation of centrifugal pump blade passage using boundary-fitted coordinate system	Assoc. Prof Dr. Abu Hasan bin Abdullah	

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D53	Design, Analysis (AGMA) and Simulate of A Contra-Rotating Gear System	Assoc. Prof Dr. Mohd Shariff b Ammoo	Dr. Istaz Nusyirwan Assoc. Prof Ainulotfi Abdul Latif
D54	Design and Analysis of a Microturbine Turbine	Assoc. Prof Ainulotfi Abdul Latif	
D55	Design & Analysis of a Microturbine Compressor	Assoc. Prof Ainulotfi Abdul Latif	
D56	Structural Design & Analysis of a CO2 Compressor for Airconditioning Systems	Assoc. Prof Ainulotfi Abdul Latif	
D57	Study Of The Impact On FRC Train Head Surface	Assoc. Prof Ainulotfi Abdul Latif	Prof. Dr. Mohamad Nazri b Mohd Jaafar
D58	Modelling and Analysis Of The Eagle Composite Wing Structure	Assoc. Prof Ainulotfi Abdul Latif	Assoc. Prof Ir. Dr. Shuhaimi Mansor Prof. Dr. Mohamad Nazri b Mohd Jaafar
D59	Use of experimental techniques and the finite element method for optimizing the procedures of producing investment casting mould, for non-ferrous alloys.	Dr. Nazri Kamsah / PM. Dr. Mohd. Hasbullah Hj. Idris	
D60	Modeling of Dynamic Response of Desktop Computer's Motherboard Due to Drop Impact	Dr. Nazri Kamsah	
D61	Simulation of Dynamic Behaviour of a Desktop Computer's Chassis Subjected to Drop Impact	Dr. Nazri Kamsah	
D62	Design of Portable Electronics Product Subjected to Drop Impact	Dr. Nazri Kamsah	
D63	Gas sensor for CO emissions	Prof. Dr. Farid Nasir Hj. Ani	
D64	Fast pyrolysis of sewage sludge	Prof. Dr. Farid Nasir Hj. Ani	
D65	Modeling and Analysis of Artificial Blood Flow	Dr. Muhammad Rafiq Abdul Kadir	
D66	Human Cancellous Bone Structure : Micro-modeling and Analysis	Dr. Muhammad Rafiq Abdul Kadir	
D67	Design & Analysis of an Elbow Prosthesis	Dr. Muhammad Rafiq Abdul Kadir	
D68	Design & Analysis of a Novel Mechanical Interlocking Mechanism for Prosthetic Dentistry	Dr. Muhammad Rafiq Abdul Kadir	
D69	Numerical Investigation of Heat Transfer From A Heated Cylinder in Cross Flow.	Dr. Nor Azwadi Che Sidik	

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D70	Numerical Simulation of Flow Pattern and Heat Transfer from Heated Rotating Annulus Cylinder	Dr. Nor Azwadi Che Sidik	
D71	Lattice Boltzmann Numerical Study of Nucleate Boiling Under microgravity Condition	Dr. Nor Azwadi Che Sidik	
D72	Numerical Study Of Flow In A Curved Duct	Dr. Nor Azwadi Che Sidik	Dr. Kahar bin Osman Assoc. Prof Dr. Abu Hasan Abdullah
D73	Numerical Investigation Of Convective Heat Transfer From A Rotating Inner Concentric Annulus Cylinder	Dr. Nor Azwadi Che Sidik	Prof. Amer Nordin bin Darus Assoc. Prof. Dr. Normah Mohd Ghazali
D74	Film Thickness in Elastohydrodynamic Lubrication For Bio-Based Lubricants in Rectangular Conjunction	Dr. Kahar Osman Mr. Zubil Bahak	Dr. Nor Azwadi bn Che Sidik
D75	Determination of Pressure Spike Location For Bio-Based Lubricants In Elastohydrodynamic Lubrication of Rectangular Conjunctions	Dr. Jamaluddin Md Sheriff Mr. Zubil Bahak	Prof. Amer Nordin bin Darus
D76	Neuro-Modelling of A Twin Rotor Multi System	Dr. Intan Zaurah Mat Darus	Assoc. Prof Dr. Mohd Shafiek Yaacob Prof. Dr. Musa Mailah
D77	Kinematic of Human Arm and Finger for Product Design Evaluation	Dr. Jamaludin bin Hj Mohd Taib	Assoc. Prof Dr. Mohamed Kasim Dr. Mohd Noor Harun
D78	Generic Data Acquisition Platform (DAQ) for Engineering Systems	Dr. Srihar a/l Rajoo	Prof. Dr. Musa bin Mailah Dr. Mohamed Husin

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D79	Modelling And Analysis Of The Active Control Turbocharging (ACT) With An 1-Dimension Engine Code	Dr. Srihar a/l Rajoo	Assoc. Prof Dr. Abu Hasan bin Abdullah Prof. Dr. Alias Mohd Nor
D80	Data Analysis For The Unsteady Flow Experiments of Turbocharger Turbines	Dr. Srihar a/l Rajoo	Assoc. Prof Dr. Abu Hasan bin Abdullah Prof. Dr. Alias Mohd Nor
D81	Study on the Optium Size for Micro Pit on Extrusion Process	Dr. Syahrullail bin Samion	Dr. Kahar bin Osman Assoc. Prof Yahaya Ramli
D82	Experimental Evaluation of Dead Metal Zone of Workpiece Extruded With Vegetable Oil	Dr. Syahrullail bin Samion	Dr. Kahar bin Osman Dr. Jamaluddin Md Sheriff
D83	Study on The Effect Of micro Grooves in Plane Strain Extrusion Process	Dr. Syahrullail bin Samion	Assoc. Prof Yahaya Ramli Dr. Jamaluddin Md Sheriff
D84	Suppression of Friction-induced vibration through structural modification	Dr. Abd Rahim Abu Bakar Dr. Mohd Zarhamdy Mohd Zain	
D85	Nasal Flow Simulation By The Mesoscale Numerical Method	Dr. Nor Azwadi Che Sidik Dr. Muhamad Rafiq Abd Kadir	Prof. Amer Nordin Darus
D86	Mini Dilution Tunnel For Soluble Organic Fraction (SOF) and Solid Fraction (SOLID) Measurement.	Dr. Wira Jazair Yahya Dr. Srihar Rajoo	Prof. Farid Nasir Ani Prof. Madya Pakharuddin
D87	Transient Dynamics Of Pipe With Flowing Medium	Prof. Madya Dr. Amran Ayob	
D88	Finite Element Simulation Of Hollow Sphre Composite	Prof. Dr. Andreas Ochsner	
D89	System Identification and Control Of Pieza Electric Actuator	Dr. Mohd Zarhamdy Md. Zain Dr. Mohamed Hussein	Prof. Madya Dr. Robiah Ahmad
D90	Mechanical Characteision Of Composite Materials With Short Fibers Made Of Carbon-Monotubes	Prof. Dr. Andreas Oschner	Dr. Yob Saed Prof. Madya Dr. Amran Alias

UPDATE UNTIL 31 DECEMBER 2009