

RESEARCH TOPICS FOR FINAL YEAR PROJECT 2017/2018

No.	Lecturer	Research Topic
1	PE Dr. A. Halim Kadarman	<ul style="list-style-type: none"> - Development of gas turbine engine using turbocharger. - Development of liquid propellant rocket engine. OR - Development of lightweight propeller bracket
2	Dr. Ahmad Faizul Hawary	<ul style="list-style-type: none"> - Optimisation of UAV flight path planning using multi-objective optimisation approach. (Synopsis: This topic consists of two parts, first, to develop optimisation algorithm in Matlab considering multiple constraints. Secondly, result obtained from simulation will be validated using a real quadcopter using APM & using mission planner software.) - Real time 3D path planning for a Quadcopter UAV.
3	Dr. Ahmad Zulfaa Mohamed Kassim	<ul style="list-style-type: none"> - Micro Hydrokinetic Turbine (HKT): extracting renewable energy from water streams.
4	Dr. Aslina Anjang Ab Rahman	<ul style="list-style-type: none"> - High Temperature Properties of Composite Materials.
5	Dr. Elmi Abu Bakar	<ul style="list-style-type: none"> - Structural Integrity of Composite Laminates Panel using Ultrasonic Technique. - Feature Wear Monitoring System for Aircraft assembly Line Panel.
6	Assoc. Prof. Dr. Farzad Ismail	<ul style="list-style-type: none"> - Computational Fluid Dynamics (CFD) - Algorithm Development and Application in Aerospace
7	Dr. Ho Hann Woei	<ul style="list-style-type: none"> - Autonomous target tracking of a quadrotor UAV using monocular visual - inertial odometry. - Design and development of a fixed-wing Vertical Take-Off and Landing UAV.
8	Ir. Dr. Hussin Mamat	<ul style="list-style-type: none"> - Nanofluids in engine cooling system. - Prediction of thermal sensation based on simulation of temperature distribution in vehicle cabin
9	Dr. Mohd Shukur Zainol Abidin	<ul style="list-style-type: none"> - Development of natural fibre reinforced composite prepreg - Development of high fibre volume fraction natural fibre composite
10	Prof. Ir. Dr. Mohd Zulkifly Abdullah	
11	Dr. Noorfazreena Mohammad Kamaruddin	<ul style="list-style-type: none"> - Wind tunnel experiments on flow dynamics
12	Dr. Norilmi Amilia Ismail	<ul style="list-style-type: none"> - Spacecraft System Design and fabrication - Subsystem Design (Environmental Control System)
13	Dr. Norizham Abdul Razak	<ul style="list-style-type: none"> - Flow field Around A Swimming Ikan Sepat - Aeroelastic Flutter Wind Tunnel Experiment
14	Dr. Nurul Musfirah Mazlan	<ul style="list-style-type: none"> - Combustion - Engine performance
15	Ir. Dr. Nurulasikin Mohd Suhadis	<ul style="list-style-type: none"> - Satellite/Flight Controls.
16	Ir. Dr. Parvathy Rajendran	<ul style="list-style-type: none"> - Solar UAV Path Planning (continuation work) : Taken - Image Processing/Visual Tracking (continuation work) - Propeller Design (continuation work)
17	Pn. Siti Harwani Md Yusoff	<ul style="list-style-type: none"> - Space Environment Modelling. - Spacecraft System