

Lists of Research Projects for Faculty of Manufacturing Engineering (2016)

No	Research Title	Main Researcher	Start Year	End Year	Amount (RM)	Sponsorship Agency
1	GEOMETRIC MODELLING OF CUTTING TOOL INCLINATION ANGLES FOR B-SPLINE FREEFORM SURFACES IN FOUR-AXIS MACHINING PROCESSES	DR. MUHAMMED NAFIS OSMAN ZAHID	2016	2018	114,400.00	KPT
2	AN ARTIFICIAL IMAGE PROCESSING BASED DECISION MAKING APPROACH FOR COSTTIME EFFECTIVE GRADING AND SORTING OF ROTATIONALLY SYMMETRIC PRODUCTS	DR. MOHAMMED ABDO HASHEM	2016	2018	102,500.00	KPT
3	INVESTIGATION OF MICRO-ABRASION BEHAVIOUR OF NANO-CERAMIC IN MAGNETO-RHEOLOGICAL POLISHING FLUID	DR. IZWAN ISMAIL	2016	2019	111,708.00	KPT
4	CHARACTERIZATION OF THERMAL CONDUCTIVITY AND VISCOSITY OF ALUMINA NANOCOOLANT WITH ETHYLENE- GLYCEROL BASED FLUID FOR QUENCHING PROCESS	PROFESOR MADYA DR. AHMAD RAZLAN YUSOFF	2016	2019	82,400.00	KPT
5	SYSTEMATIC SUSTAINABILITY ASSESSMENT (SSA) FOR THE CONCEPTUAL DESIGN PHASE IN MALAYSIA AUTOMOTIVE INDUSTRY	IR. DR. FAIZ MOHD TURAN	2016	2018	20,000.00	UMP
6	DESIGN OF PROTECTIVE HEADGEAR FOR SOCCER PLAYERS THROUGH EXPERIMENTAL AND COMPUTATIONAL ANALYSIS	DR. MOHD HASNUN ARIF HASSAN	2016	2018	23,300.00	UMP (Research Grant)

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7	AN INTELLIGENT ROBUST CONTROL OF WHEELED MOBILE ROBOT IN RESTRICTED ENVIRONMENT USING ACTIVE FORCE CONTROL AND RESOLVED ACCELERATION CONTROL	DR. MOHAMMED ABDO HASHEM	2016	2018	28,300.00	UMP
8	DEVELOPMENT OF A MAGNETORHEOLOGICAL PINCHED MODE VALVE FOR AUTOMOTIVE SEMI-AUTOMOTIVE SEMI-ACTIVE SUSPENSION SYSTEM	DR. IZWAN ISMAIL	2016	2018	24,500.00	UMP
9	THE DEVELOPMENT OF INTELLIGENT DRIVE SYSTEM FOR TRAJECTORY TRACKING APPLICATIONS	DR. MUHAMMAD AIZZAT ZAKARIA	2016	2018	23,300.00	UMP (Research Grant)
10	DEVELOPMENT OF AL/AL ₂ O ₃ /GR HYBRID COMPOSITE FOR AUTOMOTIVE BRAKE DISC APPLICATION	DR. AKM ASIF IQBAL	2016	2018	32,000.00	UMP
11	THE DEVELOPMENT OF AN INTELLIGENT HYBRID ACTIVE FORCE CONTROLLER FOR UPPER-LIMB EXOSKELETON	DR. AHMAD SHAHRIZAN ABDUL GHANI	2016	2018	16,800.00	UMP (Research Grant)
12	CHARACTERIZATION OF NANOCOOLANT FOR IMPROVING COOLING CHANNEL DESIGN IN HOT PRESS FORMING	PROFESOR MADYA DR. AHMAD RAZLAN YUSOFF	2016	2018	32,550.00	UMP
13	DEMAND-DRIVEN INNOVATION PROJECT BY PUBLIC-PRIVATE RESEARCH NETWORK (PPRN)- IMPROVEMENT OF THE VESSEL ENGINE AREA	DR. MOHD ZAIDI SIDEK	2016	2017	35,000.00	UMP

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14	INDUSTRIAL TESTING OF A 3-AXIS CNC TAILOR WELDED BLANK LASER WELDING MACHINE USING PREDEFINED CLOSEST-DISTANCE VOLUME INTERPOLATOR	PROFESOR IR. DR WAN AZHAR WAN YUSOFF	2016	2017	150,000.00	KPT
15	INTEGRATION OF MAHALANOBIS-TAGUCHI SYSTEM AND ACTIVITY BASED COASTING FOR REMANUFACTURING AUTOMOTIVE COMPONENTS	DR. MOHD YAZID ABU	2016	2017	5,500.00	UMP (Seed Money)
16	EXPERIMENTAL AND COMPUTATIONAL ANALYSIS OF HEAD IMPACTS IN SPORTS	DR. MOHD HASNUN ARIF HASSAN	2016	2017	5,500.00	UMP (Seed Money)
17	INVESTIGATION OF NOZZLE WEAR IN ABRASIVE WATER JET MACHINING	DR. MOHD AZMIR MOHD AZHARI	2016	2018	3,000.00	UMP (Seed Money)
18	REDUCING BITS IN ELECTRODEPOSITION PROSES OF COMMERCIAL VEHICLE - A CASE STUDY	DR. ZAMZURI HAMEDON	2016	2018	3,000.00	UMP (Seed Money)
19	EXPERIMENTAL INVESTIGATION OF SINTERING BEHAVIOUR OF METAL-CERAMIC GRAPED COMPOSITE MATERIALS	PROFESOR MADYA DR. DEWAN MUHAMMAD NURUZZAMAN	2016	2018	30,500.00	UMP
20	PID PARAMETER OPTIMIZATION FOR CNC ADAPTIVE SERVO CONTROL SYSTEM UTILIZING PARTICLE SWARM OPTIMIZATION - DESIGN OF EXPERIMENT (PSO-DOE) ALGORITHM	PROFESOR IR. DR WAN AZHAR WAN YUSOFF	2016	2019	4,000.00	UMP (Seed Money)
21	COMPUTATIONAL FLUID DYNAMICS BASED EROSION MODELLING OF ABRASIVE WATERJET NOZZLE	DR. MOHD AZMIR MOHD AZHARI	2016	2018	2,500.00	UMP (Seed Money)

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22	OPTIMIZATION OF METAL MATRIX COMPOSITE MATERIALS BY APPLYING SUSTAINABILITY CONSIDERATIONS USING ANALYTICAL NETWORK PROCESS (ANP)	DR. NANANG FATCHURROHMAN	2016	2018	3,000.00	UMP (Seed Money)
23	INVESTIGATION ON MECHANICAL PROPERTIES OF GLASS FIBER REINFORCED POLYMER COMPOSITE UNDER DIFFERENT OPERATING CONDITIONS	PROFESOR MADYA DR. DEWAN MUHAMMAD NURUZZAMAN	2016	2018	3,000.00	UMP (Seed Money)