

Lists of Research Projects for Faculty of Manufacturing Engineering (2013)

No	Research Title	Main Researcher	Start Year	End Year	Amount (RM)	Sponsorship Agency
1	Multi-Mode Failures Modeling in Reliability Engineering Systems with Bayesian Analysis Approach	Prof. Madya Dr. Ismed Iskandar	2013	2015	25,000.00	UMP (Research Grant)
2	Development of Hot Press Forming Die For Ultra High Strength Steels In Automotive Component Application	Dr. Ahmad Razlan Yusoff	2013	2015	37,950.00	UMP (Research Grant)
3	Optimization of Attitude Controller For A Technology Demonstrator	Mr. Ismail Mohd Khairuddin	2013	2015	33,500.00	UMP (Research Grant)
4	SKD61 Hot Working Tool Steel	Dr. Noor Mazni Ismail	2013	2014	34,000.00	UMP (Research Grant)
5	Characterization of Mechanical Properties of Polypropylene Reinforced Composites Using Injection Molding Method	Mdm. Suraya Sulaiman	2013	2015	33,500.00	UMP (Research Grant)
6	Particle Swarm Optimization (PSO) FOR Curve Interpolation Problem in Computer Aided Design (CAD) Modeling Interface	Prof. Dr. Wan Azhar Wan Yusoff	2013	2015	13,800.00	UMP (Research Grant)
7	Fabrication and properties of Functionally Graded Materials (FGMs)	Prof. Madya Dewan Muhammad Nuruzaman	2013	2015	30,500.00	UMP (Research Grant)
8	Developing Quantitative Performance Measurement Audit Tool of Lean Manufacturing Performance Using Critical Success Failure (CSF) Technique	Mdm. Nur Najmiyah Jaafar	2013	2015	30,100.00	UMP (Research Grant)
9	An Investigation Into Proactive Ergonomics Measures Barriers At Early Product Development Phases in Malaysian Automotive Industries	Dr. Noraini Mohd Razali	2013	2015	27,300.00	UMP (Research Grant)

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10	Irregular Milling Tools	Dr. Ahmad Razlan Yusoff	2013	2014	20,000.00	UMP (AEC CENTER)
11	Enhancement of Stress Resistance in Squeeze Mode Magnetorheological (MR) Fluid Through Optimization of Material Parameters	Dr. Izwan Ismail	2013	2015	51,342.00	KPT (RAGS)
12	Utilization High Speed Milling Techniques in Die Machining Process by using Speed Milling Machine	Mr. Mohamad Farid Mohamad Sharif	2013	2015	62,542.00	KPT (RAGS)
13	The Identification and Development of Competitive Innovative Elements in SME Local Food Based Industry	Mdm. Kartina Johan@Rahmat	2013	2014	20,000.00	MPN (Kluster Industri dan Inovasi)
14	Intecell Interference Modeling in Third Generation Partnership Project Long Term Evolution Systems	Dr. Arshed Abdulameed Oudah	2013	2015	10,000.00	UMP (Research Grant)
15	An Optimized Integration of Solar and Wind Energy Sources Using Smart Micro Grid	Prof. Madya Dr. Ajisman Apen	2013	2015	28,000.00	UMP (Research Grant)
16	Design and Development of Thermoplastic Lid via Thermoforming Process	Dr. Noor Mazni Ismail	2013	2015	28,238.00	UMP (Research Grant)
17	A Low Cost Force Dynamometer for Precision Machining of Automotive Cylinder Head	Dr. Ahmad Razlan Yusoff	2013	2015	30,000.00	UMP (Research Grant)
18	Development of Decision Model for Implementing Lean Manufacturing Methods using Topisis and AHP in Fuzzy Environment	Dr. Amir Azizi	2013	2015	19,500.00	UMP (Research Grant)

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19	Enhancing the Electrical Discharge Machining of Metallic Reinforced Ceramic Composites	Dr. Mebrahitom Asmelash	2013	2016	25,960.00	UMP (Research Grant)
20	Statistical Process Control : Fuzzy Control Chart and Process Capability Indices with Normal Data in the Supply Chain of Automotive Industry	Dr. Soroush Avakh Darestani	2013	2014	10,000.00	UMP (Research Grant)
21	Functional Hirarchical Relationship for A Complex Flow Model Considering Anisotpic Damping of Turbulence	Prof. Madya Dr. Abdul Aziz Jaafar	2013	2016	10,040.00	KPT (FRGS)