

Editorial Board

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Active Grants

ASEAN-India

Collaborative Project

Title: Development of Titanium-steel and Nickel-titanium bimetallic structures through additive manufacturing for structural and aerospace applications

Latest Publications

Musa and Abdullah, *ASET*, 5(1), pp. 262-273, 2026

Abed et al., *Adv. Sci. Technol. Res. J.*, 20(7), 2026.

Aslam and Abdullah, *Eng. Res. Express*, 8(6), 2026.

Poonraj and Abdullah, *Int. J. Adv. Manuf. Technol.* 143, pp. 2041-2059, 2026.



Preface

Research in metal forming begins after secured a grant namely Sciencefund under MOSTI in year 2006. To be more specific, 1 December 2006, which focusing on the integrating CAD/CAM in die design of cold forging process. Start from that, the Metal Forming Research Lab begins to evolve till now as can be seen in photos below.



2007



2008



2011



2026

The first student register as postgraduate students were Dr. Khaleed (PhD) and Mr. Ahmad Razlee (MSc.) whose graduated in year 2010 and 2009 respectively. Till now, the, the lab has produced 6 PhD and 8 MSc students.

The focus of research work also progressed from metal forming (cold forging and sheet metal forming) to metal additive manufacturing focusing on wire arc additive manufacturing. Currently, 10 PhD and 1 MSc still actively doing work in the lab. They came from various countries, including China, India, Iraq, Nigeria, Kuwait and local students.

Hope the lab continue to contribute in dissipating knowledge to the community and country.

Tribute to Dr. Haji Zahurin Samad

Dr. Hj. Zahurin Samad joined the School of Mechanical Engineering (PPKM) in 1996. At that time, I am in my 2nd year undergraduate programme at USM Perak Branch Campus or USMKCP. After I joined PPKM in year 2000 as Guru Bahasa DG41, we become colleague and after I work under him as Program Chairman (PC) after got promoted as lecturer DS45 in year 2003. Still remember, one of the earlier courses being assigned to me is Robotic and Automation EPP451, which is very new to me.

His calmness and soft-spoken during meetings, always make every tense meeting cool-down. He try not to condemn anyone and bring all the facts during his explanation, making the others forget about the tense issues. He always has logical ideas for almost all problems raised. From as a lecturer to as a colleague, then become the mentor and ends as a friend.

In the development of the Metal Forming Research Lab, even though not directly involved, his contribution means a lot, especially in securing grants and supervision of the PG students, while the lab begins to start toddling. Now, even though it is still small in numbers and has low operating costs, we can run much faster than others who are bigger and richer. He is part of the lab.



Logo for 20th Anniversary of Metal Forming Research Lab USM



In celebrating 20th establishment of the Metal Forming Research lab USM, a logo has been designed. With the number 20 as a background and the logo of the lab at the front, represent the 20th years of establishment of the lab, from 2006 to 2026. Historically, metal forming process was conducted using hammer in the early stage of the technology being introduced to produce parts. This is the niche area of the lab since its being proposed in mid of September 2006. Till today, many students benefit and hope for bigger impact on the nation in the future.

Contact Details

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IN MEMORY OF



إِنَّا لِلَّهِ وَإِنَّا إِلَيْهِ رَاجِعُونَ



Al-Fatihah



PROFESOR MADYA DR. ZAHURIN SAMAD

**MANTAN PENSYARAH PUSAT PENGAJIAN
KEJURUTERAAN MEKANIK**

1966 - 2026

**Warga Pusat Pengajian Kejuruteraan Mekanik,
Universiti Sains Malaysia mengucapkan Salam Takziah
kepada semua ahli keluarga Allahyarham. Semoga
Allahyarham di tempatkan dalam kalangan orang-orang
yang beriman dan beramal soleh.**

Ameen Yarabbal Al Amin.