

**UNIVERSITI TEKNOLOGI MARA****MEC554: THERMALFLUIDS LAB**

Course Name (English)	THERMALFLUIDS LAB APPROVED	
Course Code	MEC554	
MQF Credit	1	
Course Description	The course consists of two parts, i.e. topics in thermodynamics and fluid mechanics. It provides the opportunity for the students to operate, under supervision, various experimental equipments. Students shall complete with confidence all laboratory experiments and to relate them to theoretical understandings of thermofluids.	
Transferable Skills	Knowledge, Training and Scientific Skills, Communication Skills and Leadership	
Teaching Methodologies	Lectures, Lab Work, Demonstrations	
CLO	CLO1 Perform each experiment correctly through established procedures and good record keeping. [PO1, LO1]{C2}. CLO2 Analyze the experimental data in details by including the interpretation of data, in depth discussion and conclusion as required by each experiment [PO4, LO3, SS1]{C4}. CLO3 Write a detail technical report for each experiment in a structured format and professional manner [PO9, LO4, SS2]{A2}. CLO4 Integrate as an effective member of a team [PO10, LO9, SS3]{A4}	
Pre-Requisite Courses	No course recommendations	
Reading List	Recommended Text	• 2014, <i>MEC551 Thermal Engineering</i> , McGraw Hill
	Reference Book Resources	• Y.A. Cengel and M.A. Boles, 2007, <i>Thermodynamics, an Engineering Approach</i> , 6 Ed., , McGraw Hill [ISBN:] • J. P. Holman 2010, <i>Heat Transfer</i> , 10 Ed., , McGraw Hill [ISBN:] • 2007, <i>Incropera et. al., Heat and Mass Transfer</i> , Ed., , USA: John Wiley & Sons, Inc [ISBN:] • Y.A. Cengel 2007, <i>Heat and Mass Transfer: A Practical Approach</i> , 3 Ed., , McGraw Hill [ISBN:] • Yunus Cengel, John Cimbala 2013, <i>Fluid Mechanics Fundamentals and Applications</i> , McGraw-Hill Education [ISBN: 0073380326]
Article/Paper List	This Course does not have any article/paper resources	
Other References	This Course does not have any other resources	