UNIVERSITI TEKNOLOGI MARA

STA108: STATISTICS AND PROBABILITY

Course Name (English)	STATISTICS AND PROBABILITY APPROVED
Course Code	STA108
MQF Credit	3
Course Description	This course introduces the basic knowledge of statistics and probability, and is divided into five topics; introduction to statistics, descriptive statistics, correlation and regression, introduction to probability and probability distributions. Applications to more general everyday problems towards science and technology will be included in order to provide a broader spectrum to the students and at the same time, develop their interest in the course. Students will be exposed to data analysis and interpretation of statistical software output. They will also have the experience of reporting and presenting the findings on statistical data analysis using the knowledge they have learnt in this course.
Transferable Skills	Problem solving skills developed through assignment, group project, test and final examination.
Teaching Methodologies	Lectures, Tutorial, Discussion
CLO	CLO1 Determine solutions to solve problems related to statistics and probability. CLO2 Demonstrate personal skills through enthusiasm of intellectual and self-development in doing statistics tasks. CLO3 Demonstrate communication skills with responsive the findings on statistical data analysis.
Pre-Requisite Courses	No course recommendations
Reading List	**Recommended Text**: • **Allan Bluman 2017, *Elementary Statistics: A Step By Step Approach*, 14 Ed., McGraw-Hill Education [ISBN: 1259755339]** **Reference Book Resources**: • **Bhisham C. Gupta,Irwin Guttman,Kalanka P. Jayalath 2020, *Statistics and Probability with Applications for Engineers and Scientists*, John Wiley & Sons [ISBN: 1119516633]** • **Sheldon M. Ross 2020, *Introduction to Probability and Statistics for Engineers and Scientists*, Academic Press [ISBN: 0128243465]** • **Richard A. Johnson,Irwin Miller,John E. Freund 2018, *Miller and Freund's Probability and Statistics for Engineers*, Pearson [ISBN: 0134995384]** • **Raymond H. Myers, Ronald E. Walpole, Sharon L. Myers, Keying E. Ye 2017, *Probability & Statistics for Engineers & Scientists, Global Edition*, 9 Ed., Pearson College Division [ISBN: 9781292161365]** • **William M. Mendenhall,Terry L. Sincich 2016, *Statistics for Engineering and the Sciences, Sixth Edition, Student Solutions Manual*, CRC Press [ISBN: 9781138046771]**
Article/Paper List	This Course does not have any article/paper resources
Other References	This Course does not have any other resources