



**SCHOOL OF QUANTITATIVE SCIENCES  
UNIVERSITI UTARA MALAYSIA**

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<b>COURSE</b>	<b>: PRACTICUM</b>
<b>COURSE CODE</b>	<b>: SQSX4912</b>
<b>PREREQUISITE</b>	<b>: NONE</b>
<b>CREDIT HOUR</b>	<b>: 12 CREDIT HOURS</b>
<b>DURATION OF PRACTICUM</b>	<b>: 6 MONTHS</b>

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**1.0 SYNOPSIS**

This course aims to expose students to the real working environment, to enhance knowledge and provide opportunities to conduct a real statistical analysis in a challenging working environment. Students will be placed at the selected organizations for six (6) months under close supervisions of organization’s supervisor. At the end of practicum, students are required to present their workable projects together with their final report.

**2.0 OBJECTIVES**

The objective of the practicum is

- i. to expose the students to real working environment
- ii. to enhance the students’ knowledge through expose to industry/organization’s operation
- iii. to provide opportunities for the students to conducts real tasks in more challenging environment

**3.0 CONTENT**

FOCUS AREA	SUB-FOCUS AREA	ASPECT OF EXPOSURE
Transportation and logistics industry	<ul style="list-style-type: none"> <li>- quality control and assurance</li> <li>- forecasting activity</li> <li>- data analysis using computing and statistical methods</li> <li>- measuring reliability and efficiency of related service</li> </ul>	<ul style="list-style-type: none"> <li>- team-work</li> <li>- group discussion</li> <li>- presentation</li> <li>- modelling using mathematical tools</li> <li>- documentation</li> <li>- communication skill</li> </ul>
Manufacturing	<ul style="list-style-type: none"> <li>- quality control and assurance</li> <li>- forecasting activity</li> <li>- data analysis using</li> </ul>	<ul style="list-style-type: none"> <li>- team-work</li> <li>- group discussion</li> <li>- presentation</li> <li>- modelling using</li> </ul>

	<ul style="list-style-type: none"> <li>computing and statistical methods</li> <li>- measuring reliability and efficiency of related manufacturing processes</li> <li>- human resource and production planning</li> <li>- designing production process using statistical tools</li> </ul>	<ul style="list-style-type: none"> <li>mathematical tools</li> <li>- documentation</li> <li>- communication skill</li> </ul>
Service industry	<ul style="list-style-type: none"> <li>- quality control and assurance</li> <li>- forecasting activity</li> <li>- data analysis using computing and statistical methods</li> <li>- measuring reliability and efficiency of related service</li> <li>- measuring customer satisfaction</li> <li>- identifying pattern of customer preferences and behaviours</li> <li>- measuring organisation performance</li> </ul>	<ul style="list-style-type: none"> <li>- team-work</li> <li>- group discussion</li> <li>- presentation</li> <li>- modelling using mathematical tools</li> <li>- documentation</li> <li>- communication skill</li> </ul>
Research based consultant	<ul style="list-style-type: none"> <li>- designing the process of data collection</li> <li>- data analysis using computing and statistical methods</li> <li>- measuring customer satisfaction</li> </ul>	<ul style="list-style-type: none"> <li>- team-work</li> <li>- group discussion</li> <li>- presentation</li> <li>- modelling using mathematical tools</li> <li>- documentation</li> <li>- communication skill</li> </ul>
Government sectors or agencies	<ul style="list-style-type: none"> <li>- forecasting activity</li> <li>- data analysis using computing and statistical methods</li> <li>- measuring customer satisfaction</li> <li>- measuring organisation (and staff) performance</li> </ul>	<ul style="list-style-type: none"> <li>- team work</li> <li>- group discussion</li> <li>- modelling using mathematical tools</li> <li>- documentation</li> <li>- communication skill</li> </ul>

#### **4.0 ASSESSMENT METHODS**

Employer Assessment (Confidential report) = 40%

Report = 45%

Presentation = 15%

#### **5.0 MONITORING**

Student will have two supervisors; Industrial supervisor and academic supervisor who will monitor student activities for all the 6 months of placement.