

## Topic: Demarcation/Division line between levels of research

Faculty: FACULTY OF TECHNICAL AND VOCATIONAL EDUCATION (FPTV)

	PSM- Research	Masters-Taught course	Masters - Research	PHD	Ed.D
SCOPE	<p><b>1. Sciences Social Research.</b></p> <ul style="list-style-type: none"> <li>- Describe a social/ educational phenomena.</li> <li>- Using one data collection method</li> </ul> <p><b>2. Instructional Design.</b></p> <p><b>3. Product Based (Teaching Aids)</b></p> <ul style="list-style-type: none"> <li>- Develop &amp; Test the functionality</li> </ul> <p><b>4. Technical (Civil, Electrical, Mechanical).</b></p> <ul style="list-style-type: none"> <li>- Identify any environmental, services, facilities issues that be</li> </ul>	<p><b>1. Sciences Social Research.</b></p> <ul style="list-style-type: none"> <li>- Describe a social/ educational phenomena.</li> <li>- Using multiple data collection method (Document analysis/ survey/ Observation of limited cases)</li> </ul> <p><b>2. Instructional Design.</b></p> <p><b>3. Product Based (Teaching Aids)</b></p> <ul style="list-style-type: none"> <li>- Develop, Test the functionality &amp; evaluate on usability</li> </ul>	<p><b>Technical &amp; Vocational Education (KBV)</b></p> <p><b>Contribution to practice</b></p> <ul style="list-style-type: none"> <li>- Produce/create artifact for education (Lesson plan/ Module/ Courseware)</li> </ul> <p><b>OR</b></p> <p><b>Contribution to Methodology</b></p>	<p><b>Technical &amp; Vocational Education. (PBV), Philosophy in Education (PBP).</b></p> <p><b>Contribution to knowledge</b></p> <ul style="list-style-type: none"> <li>- Establish Causal relationship between variables.</li> <li>- Provide empirical evidence for existing theory or develop new theory.</li> </ul> <p><b>AND</b></p> <p><b>Contribution to practice</b></p> <ul style="list-style-type: none"> <li>- Produce/create artifact for education (Lesson</li> </ul>	<p><b>Doctor of Education (Ed.D) – Course Work</b></p> <p><b>Contribution to educational practice &amp; methodology</b></p> <ul style="list-style-type: none"> <li>-Produce/create artifact for education (Lesson plan/ Module/ Courseware). Develop new approaches or teaching methodology.</li> </ul>

	<p>understood and addressed through technical means (Eg: Water quality in Sungai Bekok).</p> <p>-Describe one phenomena.</p>	<p>1. Technical Education (Instructional, Electrical, Mechanical, Civil) MBT, MBE, MBM, MBC</p> <p><b>4. Technical (Civil, Electrical, Mechanical).</b></p> <p>- Identify any environmental, services, facilities issues that be understood and addressed through technical means (Eg: 1.Relationship between Water borne impurities and agricultural practices in the surrounding land of Sungai Bekok, 2.Palm oil waste for reducing cement used in concrete).</p>	<ul style="list-style-type: none"> <li>- Innovative research design.</li> <li>- New Instrument is developed.</li> </ul>	<p>plan/ Module/ Courseware).</p> <ul style="list-style-type: none"> <li>- New approach</li> </ul> <p style="text-align: center;"><b>OR</b></p> <p><b>Contribution to Methodology</b></p> <ul style="list-style-type: none"> <li>- Innovative research design.</li> <li>- New Instrument is developed.</li> </ul> <p>(Eg: <b>TVET-Soft science</b>, 1.The Effect of Integration Manual of Learning Strategy &amp; High Order Thinking Skills For Generating Idea among Technical Students. <b>TVET- Hard science</b>, 2.The Impact of Indoor Comfort on Students' Experiential Learning in Laboratories).</p>	
<b>REQUIREMENTS</b>	<ul style="list-style-type: none"> <li>- Bachelor Project Report.</li> <li>- 1 Technical Report (8 -10 pages).</li> </ul>	<ul style="list-style-type: none"> <li>- Master Project Report</li> <li>- 1 Technical Report submitted to faculty (8 -10 pages).</li> </ul>	<ul style="list-style-type: none"> <li>- Dissertation (50,000 – 60,000 words).</li> <li>- 1 article in journal/proceeding indexed in Scopus</li> </ul>	<ul style="list-style-type: none"> <li>- Thesis (80,000 – 100,000 words).</li> <li>- 2 article in journal/proceeding indexed in Scopus</li> </ul>	<ul style="list-style-type: none"> <li>- Thesis (60,000 – 70,000 words).</li> <li>- 1 article in journal/proceeding indexed in Scopus</li> </ul>