

**SABAH PUBLIC WORKS DEPARTMENT
DEVELOPMENT AND STAFF TRAINING PROGRAMME**

Draughtsman First Service Examination Course		Sheet : 1
Title : COURSE SYLLABUS		Year : 1991
<p>1) <u>INTRODUCTION TO ARCHITECTURAL DRAUGHTSMANSHIP</u></p> <ul style="list-style-type: none"> - Drawing equipment and materials. Their uses and care. - Draughting techniques, line; lettering and conventional symbols. <p>2) <u>GEOMETRICAL DRAWINGS</u></p> <ul style="list-style-type: none"> - Basic geometrical construction - dividing a line, dividing angles, arc tangent to perpendiculars, arc tangent to two lines, arc tangent to line and arc. - triangles, squares, rectangles and parallelograms, polygons etc. <p>Projections</p> <ul style="list-style-type: none"> - First Angle, Second Angle and Third Angle projections. <p>3) <u>WORKING DRAWINGS/CONTRACT DRAWINGS.</u></p> <ul style="list-style-type: none"> - Architectural drawings <ul style="list-style-type: none"> - measured drawings. - conversion - Imperial - units to metric. - architectural working drawings, plan, elevations, sections and detailing. - organisation of drawings, labelling, scale and construction. - Structural drawings - Electrical drawings - Sewerage and plumbing <ul style="list-style-type: none"> - electrical layout and symbols - piping layout, manholes symbols. 		

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<p>4) <u>BUILDING CONSTRUCTION</u></p> <ul style="list-style-type: none"> - Roofs <ul style="list-style-type: none"> - Types of roofs, traditional and contemporary. - Roof construction - Staircases <ul style="list-style-type: none"> - Types of staircases. - Staircase construction. - Timber House <ul style="list-style-type: none"> - Timber house construction. - Furniture <ul style="list-style-type: none"> - Simple furniture design and construction. - Recognition and application of basic timber joinery. <p>5) <u>MATERIALS</u></p> <ul style="list-style-type: none"> - Timber <ul style="list-style-type: none"> - Structure of timber, conversion, defects, seasoning. - Common Malaysia timber species and their uses. - Timber products, common timber sizes. - Concrete <ul style="list-style-type: none"> - Common terminology used in concrete. - Types of cement. - Masonary <ul style="list-style-type: none"> - Brickwork - manufacture of bricks, variety, characteristics defects - Mortar - Bonding - Jointing and pointing 		

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6) Presentation drawings	<ul style="list-style-type: none">- Producing simple three - dimensional drawings, isometric, axonometric.- Technique of shadow casting, one point perspective. Architectural presentation drawing <ul style="list-style-type: none">- Technique of presentation, rendition of plan, section and elevation in black and white and colour presentation. Design of a simple structure <ul style="list-style-type: none">- Design a Bus stop or Park Shelter.- Site plan, plan, section, elevation, details, colour presentation.	