

SA COUNCIL FOR PROFESSIONAL AND TECHNICAL SURVEYORS

PROPOSED MODEL FOR MINIMUM QUALIFICATION REQUIREMENTS FOR REGISTRATION AS A TECHNICIAN

To be used in conjunction with subject area content specifications

One lecture is considered to be 45 – 60 minutes in length

Subject area teaching may be included in more than one course

		ST			GT		MST	
	SUBJECT AREA	Lect.	%		Lect.	%	Lect.	%
		EST			GIS(Tc)		MST	
		Lect.	%		Lect.	%	Lect.	%
	Common Subject Areas							
1	Mathematics and Applied Mathematics	100	17		75	13	100	17
2	Physics	20	3		20	3	20	3
3	Basic Surveying and Engineering Surveying	130	22			0	130	22
4	Information Technology	50	8		60	10	50	8
5	Geo-spatial Information Science	25	4		120	20	25	4
6	Photogrammetry and Remote Sensing	20	3		60	10		0
7	Coordinate Systems and Map Projections	25	4		40	7	25	4
8	Adjustments, Error Theory and Statistics	30	5				30	5
9	Business and Project Management	20	4		25	4	15	3
10	Professional Practice and Ethics	30	5		25	4	15	3
11	Category Specific Research Project	40	7		30	5	40	7
	Subtotal Common Subject Areas	490	82		455	76	450	76
	Category specific Subject Areas							
13	Geodesy and Satellite Surveying	15	2			0		0
14	Precise Engineering Surveying	30	5			0		0
15	3D Modelling /Cartography/visualisation	20	4		75	13	25	4
16	Mine sampling and Valuation					0	100	17
17	Mining Geology					0	25	4
18	Data Acquisition (From Primary and Secondary Sources inc Surveying, GPS etc.				20	3		0
19	Geographic Science				50	8		
20	Selected Core Themes and electives	20	4			0		0
	Subtotal not-common core	85	15		145	24	150	25
21	Further time for electives	20	3			0		0
	Total	600	100		600	100	600	100