

## BRC Curriculum Structure of Bachelor of Engineering (Civil) & Bachelor of Arts in Economics - AY 2014-15

Year	Course	AU	Course	AU	Course	AU	Course	AU	Course	AU	Course	AU	Course	AU	Course	AU	TOTAL AU
Year 1 Semester 1	MH1810 Mathematics 1	3	FE1008 Computing	3	PH1011 Physics <i>*(Students w/o A-level Physics to do PH1012 Physics A)</i>	3	FE1073 An Introduction to Engineering & Practices	1	HE1001 Microeconomic Principles	3	HE1002 Macroeconomic Principles	3	GC 0001 Introduction to Sustainability: Multidisciplinary Approaches and Solutions	1	HW0188 Engineering Communication I <i>*(HW0001)</i>	2	19
Year 1 Semester 2	MH1811 Mathematics 2	3	CV1011 Mechanics of Materials	4	CV1012 Fluid Mechanics	3	CV1013 Civil Engineering Materials	3	CV1711 Civil Engineering Drawing	1	GER-PE (STS) CV0001 Civil Engineering and Sustainable Built Environment <i>(Compulsory)</i>	3	HE1005 Introduction to Probability and Statistical Inference	3	ML0001	1	21
Year 2 Semester 1	CV2011 Structural Analysis I <i>*(CV1011)</i>	3	CV2013 Engineering Geology & Soil Mechanics	3	CV2015 Hydraulics <i>*(CV1012)</i>	3	MH2814 Probability & Statistics	3	CV2711 Civil Engineering Laboratory A	1	HE2005 Principles of Econometrics <i>*(HE1005)</i>	3	Ethics and Academic Integrity	1			17
Year 2 Semester 2	CV2012 Structural Analysis II <i>*(CV2011)</i>	3	CV2014 Geotechnical Engineering	3	CV2016 Hydrology	3	CV2019 Matrix Algebra & Computational Methods	3	CV2712 Civil Engineering Laboratory B	1	HE2001 Intermediate Microeconomics <i>*(HE1001)</i>	3	HE2002 Intermediate Macroeconomics <i>*(HE1002)</i>	3			19
Year 3 Semester 1	CV3011 Reinforced Concrete Design <i>*(CV2011)</i>	3	CV3013 Foundation Engineering <i>*(CV2013 &amp; CV2014)</i>	3	CV3014 Transportation Engineering	3	CV3015 Environmental Engineering <i>*(CV1012)</i>	3	HE4010 Singapore Economy in a Globalized World <i>*(HE2001 &amp; HE2002)</i>	4	Enterprise and Innovation	1	HW0288 Engineering Communication II <i>*(HW0188)</i>	2			19
Year 3 Semester 2	CV3911 Professional Internship	8	← <i>*(Year 3 Standing &amp; Completed at least 4 Semesters of study)</i>					ML0002	1								9
Year 4 Semester 1	CV0002 Engineers & Society	3	CV4011 Project Planning & Management <i>*(Year 4 Standing)</i>	3	CV4711 Seminars & Site Visits	1	CV4XXX Specialization Course <i>*(Refer to Syllabus)</i>	3	Econs PE 1	3	Econs PE 2	3	Econs PE 3	3			19
Year 4 Semester 2	CV3012 Steel Design <i>*(CV2011)</i>	3	CV3016 Construction Technology & Processes	3	CV4912 Integrated Design Project <i>*(Year 4 Standing)</i>	3	CV4XXX Specialization Course <i>*(Refer to Syllabus)</i>	3	CV4XXX Specialization Course <i>*(Refer to Syllabus)</i>	3	HE3021 Intermediate Econometrics <i>*(HE2005)</i>	3					18
Year 5 Semester 1	CV4911 Final Year Project <i>*(Year 4 Standing)</i>	4	Econs PE 4	3	Econs PE 5	3	Econs PE 6	3	Econs PE 7	3	Econs PE 8	3					19
Year 5 Semester 2	CV4911 Final Year Project <i>*(Year 4 Standing)</i>	4	Econs PE 9	3	Econs PE 10	4	Econs PE 11	4	Econs PE 12	4							19

*\*( ) denotes pre-requisite*

**Total AU for Graduation 179**

Last Updated : 10-Mar-15