32	Students							Total time in term (hours)	147					Expect	ed Time in	volved in:	(Hours)
6.4	groups							Time left for revision	33					24	58	44	21
	Date		Lec 08:00		Lec 12:00		Lab	Fossen: Structural Geology	Other Reading	Extra Reading: Abstract and pictures. 375: 10 papers. 275: 5 papers. At least one NZ, one experimental, one numerical modelling	Ice experiments: Monday to Monday	Other things	Assement: Deadlines	Lectures	Practical	Reading	Hand ins and Assesment
Week 1	Thursday, 13 July 2023	L1	Introduction: Geometry, Kinematics, Dynamics. Expectations and Literature.	L2	Stress: Mohr circle	P1	Stress and sliding	CH4 Stress. CH5 Stress in the Lithosphere	Hickman, 1991. Hubbert & Rubey, 1959	https://stevedutch.net/struct ge/labman.htm		Skills audit info Due		2	3	4	
Week 2	Thursday, 20 July 2023	L3	Fracture vs friction. Pore pressure- effective stress.	L4	Experiments and ice	P2	Fault separations and displacement	CH7 Fracture and Brittle Defm. CH8 Faults.	Walsh & Watterson, 1989; Sibson, 1989; Ice refs.	1. Fault geometry and kinematics (due Mon 29/7/23)	Group 1: Lab- book in lab			2	3	4	
Week 3	Thursday, 27 July 2023																
Week 4	Thursday, 3 August 2023	L5	Griffith cracks. Stress trajectories. Andersonian Faulting.	L6	Longitudinal and shear strain. Strain Rate	Р3	Fault displacement variation	CH3 Strain in Rocks. CH2 Deformation.	Bell & Rubenach, 1983; Toy et al 2012		Group 2: Lab- book in lab	List of papers for 1 due		2	3	4	1
Week 5	Thursday, 10 August 2023	L7	Deformation, Strain tensor, Strain Ellipsoid and Ellipse	L8	Practical strain measurement. Finite vs Infinitesimal. 3D- Flinn diagram	P4	Shear and Strain	CH12 Foliation and Cleavage. CH13 Lineations.	Ramsay 1980; Fossen & Cavalcante, 2017	2. Foliations and lineations (due Mon 21/8/23)	Group 3: Lab- book in lab			2	3	4	
Week 6	Thursday, 17 August 2023	L9	Brittle shear zones- tension gashes	L10	Data on stereonets. Conical distributions	P5	Regional fold data	CH11 Folds and folding.	Cobbold & Quinquis, 1980; Hudleston & Treagus 2010		Group 4: Lab- book in lab			2	3	4	
	Sat/Sun 19th/20th August		tides ~ 11pm				1/2 day Field Trip to Brighton or Co				Field Assessment		12		4		
Week 7	Thursday, 24 August 2023	L11	Explaining Sandboxes	L12	Deformation Mechanisms	P6	A fold and thrust analogue model	CH16 Contractional regimes. CH17. Extensional regimes. CH20 Balancing and restoration.	Knipe, 1989. Frost & Ashby, 1982.	3. Microstructure and rheology (due Mon 18/9/23)	Group 5: Lab- book in lab	List of papers for 2 due		2	3	4	1
	Thursday, 31 August 2023		Mid Semester Break		Mid Semester Break		Mid Semester Break										
Week 8	Thursday, 7 September 2023	L13	Fold vergence	L14	Kinematics of faults and shear zones	P7	Fold Vergence	CH15 Shear Zones and Mylonites.	Gillam et al 2013; Fagerang & Biggs, 2019		Group 6: Lab- book in lab			2	3	4	
Week 9	Thursday, 14 September 2023	L15	Rheology	L16	Dislocations	P8	Ice mechanical data compilation.	CH6 Rheology	Hirth et al., 2001; Kidder et al 2019				Sandbox Interactive PPT 11/9/23 4PM	2	6	4	4
Week 10	Thursday, 21 September 2023	L17	Recovery	L18	Recrystallisation	P9	Ice Creep. Un wrap samples. Mechanical data reduction. Stress exponents.	CH10 Deformation at the microscale	Stipp et al 2002, Law et al 2014			List of papers for 3 due		2	3	4	1
Week 11	Thursday, 28 September 2023	L19	Crystallographic Preferred Orientation	L20	Crystallographic Preferred Orientation	P10	Ice Microstructures: more data reduction. Grain size effects	_	Toy et al., 2008; Law et al 1990;				Ice Deformation Poster 29/9/23 4PM	2	10	4	10
Week 12	Thursday, 5 October 2023	L21	Structure on the large scale	L22	Ice sheet rheology	P11	Finsihing up ice analysis		Shao et al, 2022; Lutz et al 2020.					2	3	4	0
Week 13	Thursday, 12 October 2023		Revision Session	L26	Revision session		Review of lab stuff							2	3	0	