Date Sessi	ion Time slot (ET)	Type	Venue	Lecturer	Торіс
Monday, March 11, 2024 Mornir		Registration	A level kitchen	SEMC staff	Check-in and coffee
Monday, March 11, 2024 Mornir	ing 9:30 - 10:45	Lecture 1 - Keynote	NYSBC seminar room	Joachim Frank (Columbia University)	Intro and overview of SPA
Monday, March 11, 2024 Mornir	ing 11:00 - 11:30	Welcome	NYSBC seminar room	SEMC staff	Orientation and formal welcome
Monday, March 11, 2024 Mornir	ing 11:30 - 12:00	Roundtable 1	NYSBC seminar room	students	Flashtalks from students
Monday, March 11, 2024 Lunch	h 12:00 - 13:00	Lunch	SEMC area	instructors, students and TAs	Lunch
Monday, March 11, 2024 Aftern	noon 13:00 - 14:00	Lecture 2	SEMC conference room	Victor Chen & Wen Jiang (Purdue University)	cryoVR for Virtual Reality Augmented CryoEM Training
Monday, March 11, 2024 Aftern	noon 14:00 - 17:30	Practical 1	SEMC area	SEMC staff	cryoEM sample prep and grid prep stations
Monday, March 11, 2024 Recep	ption 17:30 - 17:45	Debrief	SEMC conference room	Review of the day	Day 1!
Monday, March 11, 2024 Recep	ption 17:30 - 18:30	Reception	SEMC area	instructors, students and TAs	Reception
Tuesday, March 12, 2024 Mornin	ing 9:00 - 10:00	Lecture 3	NYSBC seminar room	SEMC staff	Microscopes, grids and tools of the trade
Tuesday, March 12, 2024 Mornin	ing 10:00 - 10:30	Roundtable 2	NYSBC seminar room	SEMC staff	Making use of local facilities and national centers
Tuesday, March 12, 2024 Lunch	h 12:30 - 13:30	Lunch	SEMC conference room	instructors, students and TAs	Lunch
Tuesday, March 12, 2024 Aftern	noon 10:30 - 17:30	Practical 2	SEMC area	SEMC staff	Support films, plunge freezing and TEM stations
Tuesday, March 12, 2024 Aftern	noon 17:30 - 17:45	Debrief	NCCAT control room	Review of the day	Day 2!
					Algorithms and foundational math PartI:
Wednesday, March 13, 2024 Mornin	ing 9:00 - 10:00	Lecture 4a	NYSBC seminar room	Fred Sigworth (Yale University)	derivation/explanation of the CTF, FTs.
Wadaaaday Marah 12, 2024 Marai	ina 10:10 - 11:05	Lecture 4b	NYSBC seminar room	Fred Sigworth (Yale University)	Algorithms and foundational math PartII: reconstruction, classification, maximum likelihood.
Wednesday, March 13, 2024 Mornin Wednesday, March 13, 2024 Mornin	-	Lecture 5	NYSBC seminar room	Amedee des Georges/Reza Khayat (NYU/CUNY)	Data Analysis and reconstruction workflow
Wednesday, March 13, 2024 Lunch	0	Roundtable 3	NYSBC seminar room	Fred Sigworth & Amedee des Georges/Reza Khayat	Current and new algorithms to deal with SPA reconstruction
Wednesday, March 13, 2024 Lunch Wednesday, March 13, 2024 Lunch		Photo	Outside	Group photo	Sunny weather!
Wednesday, March 13, 2024 Editori		Practical 3	NYSBC seminar room	SEMC staff	Processing using cryoSPARC
Wednesday, March 13, 2024 Aftern		Debrief	NYSBC seminar room	Review of the day	Day 3!
Wearesday, March 10, 2024 Mitchi	11.00 11.40	Deblief	NTODO Seminar room	Neview of the day	
Thursday, March 14, 2024 Mornir	ing 9:00 - 10:00	Lecture 6	NYSBC seminar room	Rich Hite (Memorial Sloan Kettering Cancer Center)	Interpretation and Limitations of SPA
Thursday, March 14, 2024 Mornin Thursday, March 14, 2024 Mornin	5	Lecture 7	NYSBC seminar room	Sonya Hanson (Flatiron Institute)	Al/ML methods to deal with heterogeneity
Thursday, March 14, 2024 Lunch		Roundtable 4	NYSBC seminar room	Rich Hite & Sonya Hanson	EM challenges and new frontiers
Thursday, March 14, 2024 Aftern		Lecture 8	NYSBC seminar room	Jack Turner	EMDB & EMPIAR: Archiving of Electron Microscopy Data
Thursday, March 14, 2024 Aftern		Practical 4	NCCAT control room	SEMC staff	Autoloader TEMs and Krios data collection at a national center
Thursday, March 14, 2024 Aftern		Debrief	SEMC conference room	Review of the day	Day 4!
Thursday, March 14, 2024 Dinner		Dinner	venue outside NYSBC	all instructors, students and TAs	Group dinner
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Friday, March 15, 2024 Mornir	ing 9:00 - 9:45	Lecture 9	NYSBC seminar room	Oli Clarke (Columbia University)	Fitting Atomic Models
Friday, March 15, 2024 Mornir	0	Lecture 10	NYSBC seminar room	Gira Bhabha & Damian Ekiert (John Hopkins University)	Coordinate Refinement and Validation
Friday, March 15, 2024 Mornir	0	Roundtable 5	NYSBC seminar room	Oli Clarke, Gira Bhabha and Damian Ekiert	Making biological conclusions from cryoEM reconstructions.
Friday, March 15, 2024 Lunch	0		NYSBC seminar room	instructors, students and TAs	Lunch concurrent with Coot practical
Friday, March 15, 2024 Aftern	noon 12:30 - 16:00	Practical 5	NYSBC seminar room	Oli Clarke	Coot and model building
Friday, March 15, 2024 Aftern		Wrap up - debrief	NYSBC seminar room	SEMC staff	What we did this week
-	noon 16:30 - 17:00		SEMC conference room	SEMC staff	Farewell