List of the main topics of the course

1. IFS (no ruler or protrector, needed). dimension - smilarity, box-rounting, Moran equation driven IFS time series > driven IFS IFS with memory: turbidden pairs& triples. (It every forbidden triple rentains triples. (It every forbidden triple rentains a far bidden pair, the Its is determined by far bidden pairs) rome, paths to Its without memory: rome, paths to each non-rome from a rome, no loops among non-romes. among non-ames. 5. Multitractals - proporties of the fra) curve from the IF's probabilities. 6. Randon tractals - dimensions (randomi red Moran equation) Brownian motion, Frotinal Brownian motion, Levy flights multitractal cartours & Trading Time Theorem 7. Chaos-gaphical itestion, fixed points, cycles, and their stability Cellular actamata Capply the (A rule) q. Mandelbrot set & Julia, sets Zn+1 = Zn2+C, combinatories of the Mandelbrot set - principal series, tarry sequence, multiplier rule.