

## Topic defence

Monday, September 22, 2014

#	Research presentation and report topics	Student names
1a	Nanofabrication: photolithography and nanolithography (optical lithography, X-ray lithography, dip pen nanolithography, electron beam lithography, nanoimprint lithography)	
1b	Nanofabrication: photolithography and nanolithography (optical lithography, X-ray lithography, dip pen nanolithography, electron beam lithography, nanoimprint lithography)	
2	Nanofabrication: Manipulation of atoms, molecules and nano-objects	
3	Scanning tunneling microscopy (STM) and atom force microscopy (AFM)	Vattapparamban,Edwin George
4	Electron microscopy (scanning, transmission, reflection, etc.)	Roychoudhury,Sohini
5	Focused ion beam (FIB)	
6	Low energy electron diffraction (LEED)	
7	Auger electron spectroscopy (AES)	
8	Raman spectroscopy	
9	Field electron and field ion microscopy, atom probe spectroscopy	
10	Mass-spectrometry (magnetic,quadrupole mass spectrometer)	
11	Molecular engineering	Nayak,Gayatri Pandurang
12	Nanomachines and nanodevices (MEMS, NEMS, fabrication, micro- and nano-machining)	Kambham,Monica
13	Biomedical nanotechnology and nanomedicine (nanostructured materials, nanoporous membranes, targeted drug delivery, nanobiomechanics)	Lopez,Michael
14	Quantum wires and dots	Yelamareddy,Rahul
15	Quantum computing	Vepachedu,Harish Aditya Karthik
16	Nanodevices in electronics (nanotransistor, single electron transistor, etc.).	Ahmadivand,Arash
16a	Nanodevices in electronics (spintronics).	Behara,Padmaraju
17	Functional nanoscale and nanostructured materials.	Punem,Ram Charan Dora
18	Application of carbon nanostructures in nano science and nanotechnology -- Fullerene, CNT, Graphene	Jalal,Ahmed Hasnain
19	Social and economical aspects of nanotechnology (public perception, ethical issues, health concerns, regulations, implications, perspectives, economical effect, etc.)	Marin,Fabiola Isabel