COMSATS Institute of Information Technology
Registrar Office, Principal Seat, Islamabad
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No: CIIT-Reg/Notif-661 /12/985

July 3, 2012

NOTIFICATION

Scheme of Studies of Master of Science (MS) in Nanotechnology

It is hereby notified that the Academic Council in its 13th meeting held on June 04, 2012 approved the following scheme of studies of Master of Science (MS) in Nanotechnology program w.e.f Fall 2012 at CIIT system:

	Min No. of courses	Min No. of Credit hours
1. MS course work		
i. Core courses (list attached)	06	18
ii. Elective courses (list attached)	02	06
Total Credit hours of course work		**24**
2. MS Thesis		**06**
3. Total credit hours of program		**30**

Note:
All Rules and Regulations approved by BASAR from time to time shall be applicable

This issue with approval of the Competent Authority.

Nadeem Uddin Qureshi
Additional Registrar

Encl: (2 pages in total including this page)

Distribution:
1. Dean Faculty of Science, CIIT.
2. Chairman, Department of Physics, CIIT.
3. Incharge, CIIT Islamabad Campus.
4. Incharge Academics, CIIT Campuses.
5. All HoDs Department of Physics, CIIT, Campuses.
6. Controller of Examinations, CIIT.
7. Incharge Examinations, CIIT Campuses.
CC:
1. PS to Rector
2. PS to Registrar

List of Core courses

Course Code	Course Title	Credit hours
NTY501	Quantum Theory of Solids	3(3, 0)
NTY510	Properties and Characterization of Nanomaterials	3(3, 0)
NTY511	Synthesis of Nanomaterials by Chemical Routes	3(3, 0)
NTY520	Experimental Techniques in Nanotechnology	3(3, 0)
NTY540	Thermal and Statistical Physics	3(3, 0)
MEM503	Energy Project Management	3(3, 0)

Thesis

Course Code	Course Title	Credit hours
NTY800	Thesis	6

List of Elective Courses

Course Code	Course Title	Credit hours
NTY512	Synthesis of Nanomaterials by Physical Routes	3(3, 0)
NTY521	Smart Sensors and Actuators	3(3, 0)
NTY530	Fuel Cells and Hydrogen Storage	3(3, 0)
PHY503	Mathematical and Computational Methods in Physics	3(3, 0)
PHY524	Surface Physics	3(3, 0)
PHY525	Non-Conventional Energy Resources	3(3, 0)
PHY531	Physics of Semiconductor Devices	3(3, 0)
PHY551	Physics of Microfabrication Technology	3(3, 0)
PHY640	Advances in Thin Film Surface Technology	3(3, 0)
MEM502	Knowledge Management	3(3, 0)
MEM505	Household Energy	3(3, 0)
PHY584	Nanophotonics	3(3, 0)