COMSATS Institute of Information Technology Principal Seat, Islamabad. Registrar Office

No: CIIT-Reg/Notif-8c/11/714

March 21, 2011

Notification

On the recommendations of the Board of Studies for Physics in its 10th meeting held on October 19, 2010, the Board of Faculty of Science in its 9th meeting, held on December 13, 2010, approved the following revised Scheme of Studies for Bachelor of Science in Physics program, effective from Fall 2008.

Year 1

	Course Code	Course Title	Credit Hours	Pre-Requisite(s)	Co- Requisite(s)
-	PHY101	Mechanics of Particles	3(3, 0)		
ster	HUM100	English Comprehension and Composition	3(3, 0)		1
מבווע	MTH101	Calculus I	3(3, 0)		
5	CSC101	Introduction to Computing	4(3, 1)		
-	> MET101	Introduction to Meteorology (Minor-I)	3(3, 0)		
	PHY108	Physics Lab-I	1(0, 1)		
		Total	17(15, 2)		

	Course Code	Course Title	"Credit Hours	Pre-Requisite(s)	Co- Requisite(s)
7	PHY103	Heat and Thermodynamics	3(3, 0)		(0)
ester	MTH102	Calculus II	3(3, 0)	MTH101	
Seme	MTH231	Linear Algebra	3(3, 0)		4
Se	CSC141	Introduction to Computer Programming	4(3, 1)	CSC101	•
1 20	MET201	Satellite Remote Sensing(Minor-II)	3(3, 0)		
	PHY109	Physics Lab –II	1(0, 1)		
		Total	17(15, 2)		

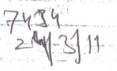
Year 2

ري د	Course Code	Course Title	Credit Hours	Pre-Requisite(s)	Co- Requisite(s)
nester	PHY222	Electric and Magnetic Fields –I	3(3, 0)	PHY101,MTH101, MTH102	
Sen	HUM103	Communication Skills	3(3, 0)	HUM100	
	HUM111	Pakistan Studies	3(3, 0)		

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	LIMOUR	3(3, 0)		PHY222,MTH24
PHY232	Vibrations and Waves	3(3, 0)		
) ECO110	Fundamentals of Economics (Minor-III)	3(3, 0)	MTH102	
MTH241	Ordinary Differential Equations			
	Physics Lab –III	1(0, 1)		
FIIIZOO	Total	19(18, 1)		

Codo	Course Title	Credit Hours	Pre-Requisite(s)	Co- Requisite(s)
Course Code	L	3(3, 0)	MTH241	
MTH343	Partial Differential Equations	3(0) -1		PHY101, PHY232
PHY241	Classical Mechanics	3(3, 0)		PHYZ3Z
		3(3, 0)		
HUM110	Islamic Studies	3(3, 0)	PHY222,MTH102	
PHY223	Electric and Magnetic Fields-II	3(3, 0)	PHY222	
EEE121	Electric Circuits Analysis – I	3(3, 0)	PHY232	
PHY225	Modern Physics Concepts			- La Cart
PHY209	Physics Lab –IV	1(0, 1)		
PH1203	Total	19(18, 1)		

- T	Year 3	Course Title	Credit	Pre-Requisite(s)	Co- Requisite(s
	Course Code		3(3, 0)	PHY222	
	PHY341	Relativity		PHY241,PHY232	
	PHY342	Quantum Mechanics-I	3(3, 0)	PHY225	
			3(3, 0)	MTH102,MTH343	
	PHY361	Mathematical Methods of Physics	3(3, 0)	EEE121	
	EEE222	Electric Circuits Analysis – II			
		Introduction to Biosciences (Minor-IV)	3(3, 0)		
	BSC100 PHY352 PHY308	Engineering Optics	3(3, 0)	PHY232	
			1(0, 1)		
		Physics Lab –V			
		Total	19(18, 1)		

	Course Code	Course Title	Credit	Pre-Requisite(s)	Co- Requisite(s
9			3(3, 0)	PHY361	
ter	111100-	Computational Physics	3(3, 0)	PHY342	
Semester	PHY343	Quantum Mechanics-II			
Ser	DUIVACA	Theory of Errors and Research	3(3, 0)		
	PHY363	Methodology	4		

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PHY345	Statistical Mechanics			March 21, 20
PHY354		3(3, 0)	PHY103	
PHY309	Fundamental Properties of Solids Physics Lab –VI	3(3, 0)		
		1(0, 1)		
	Total	16(15, 1)		

	Course Code	Course Title			
	PHY441		Credit Hours	Pre-Requisite(s)	Co-
	PHY422	Electronic Properties of Solids Electromagnetic Theory and	3(3, 0)	PHY354	Requisite(s
-		Applications	3(3, 0)	PHY223	
	PHY433	Nuclear Physics		PHY232	
2	PHYXXX	Elective-I	3(3, 0)	PHY342	
	PHY499	Project-I	3(3, 0)	4000000	,
		CONT.	3(0, 3)		
	was the same	Total	15(12, 3)		

00	Course Code	Course Title	6 11		
ester	PHYXXX	Elective-II	Credit Hours	"Cquisite(s)	Co-
Seme	PHYXXX	Elective-III	3(3, 0)		Requisite(s
Se	PHY499	Project-II	3(3, 0)		
		Total	6(0, 6)		
		Total	12(6, 6)		

Grand Total: 134 Credit Hours

Elective Courses:-

Course Code	Course Title		
EEE241	Digital Logic Design	Credit Hours	Dro D
EEE342	Microprocessor Sust	4(3, 1)	Pre-Requisite(s
PHY351	Microprocessor Systems & Interfacing Lasers and Fiber Optics	4(3, 1)	
PHY425	Microelectronics	4(3, 1)	EEE241
PHY451	Semiconductor Devices	3(3, 0)	PHY231 or PHY324
PHY453	Device Design	3(3, 0)	PHY350 or PHY354
PHY454	Device Design and Simulation Optoelectronics	4(3, 1)	PHY350 or PHY354
PHY455	Introducti		PHY425 or PHY451
PHY462	Introduction to Biophysics Introduction to Nanoscience &	3(3, 0)	PHY451
PHY457	Technology Lasers and Their Applications	3(3, 0)	PHY350 & PHY354
	Abucations	3(3, 0)	PHY352

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PHY465	Introduction to Materials Science	3(3, 0)	PHY350 or PHY354
PHY468	Introduction to Group Theory	3(3, 0)	-
PHY469	Introduction to Astrophysics and Gosmology	3(3,0)	PHY341
PHY471	High Energy Physics I	3(3, 0)	PHY343
PHY476	High Energy Physics II	3(3, 0)	PHY343
PHY478	Quantum Computing	3(3, 0)	PHY343

Minors Courses: Subject to the availability of teachers.

Course Code	Course Title	Credit Hours	Pre-Requisite(s)
BSC100	Introduction to Biosciences	3(3, 0)	
BIO100	Fundamentals of Biology	3(2, 1)	
ENV101	Fundamentals of Environmental Sciences	3(3, 0)	
CHM211	Introduction to Physical Chemistry	3(2, 1)	
ECO102	Economics	3(3, 0)	
ECO110	Fundamentals of Economics	3(3, 0)	
HUM320	Introduction to Sociology	. 3(3, 0)	
MGT100	Introduction to Business	3(3, 0)	
MGT101	Introduction to Management	3(3, 0)	
HUM310	Islamic History	3(3, 0)	
MET105	Climatology	3(3, 0)	
MET101	Introduction to Meteorology	3(3, 0)	
MET201	Satellite Remote Sensing	3(3, 0)	

Niaz Ahmed Khaskheli Additional Registrar

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