

SARDAR PATEL UNIVERSITY
Programme & Subject: M.Sc (Physics)
Semester: IV
Syllabus with Effect from: June - 2014

Course Type	Course Code	Name Of Course	Theory/Practical	Credit	Contact Hrs/Week	Exam Duration in hrs	Component of Marks		
							Internal	External	Total
							Total/Passing	Total/Passing	Total/Passing
Core Course	PS04CPHY01	Nuclear & Particle Physics	Theory	4	4	3	30/10	70/28	100/40
	PS04CPHY02	Theoretical Solid State Physics	Theory	4	4	3	30/10	70/28	100/40
Elective Course (Any One) Specialization)									
Condensed Matter Physics (CMP)	PS04EPHY01	Applied Crystallography & Bio-Physics	Theory	4	4	3	30/10	70/28	100/40
	PS04EPHY02	Crystal Growth & Imperfections In Solids	Theory	4	4	3	30/10	70/28	100/40
	PS04EPHY09	Practical & Project Work – I	Practical	4	12 Hrs	3	30/10	70/28	100/40
	PS04EPHY10	Practical & Project Work – II	Practical	4	12 Hrs	3	30/10	70/28	100/40
	PS04EPHY17	Viva-Voce (CMP)		1	--	--	--	50/20	50/20
Electronics & Communication (E & C)	PS04EPHY03	Signal Processing & Satellite Communication	Theory	4	4	3	30/10	70/28	100/40
	PS04EPHY04	Advanced Solid State Electronic Devices	Theory	4	4	3	30/10	70/28	100/40
	PS04EPHY11	Practical & Project Work – I	Practical	4	12 Hrs	3	30/10	70/28	100/40
	PS04EPHY12	Practical & Project Work – II	Practical	4	12 Hrs	3	30/10	70/28	100/40
	PS04EPHY18	Viva-Voce (E & C)		1	--	--	--	50/20	50/20
Theoretical & Computational Physics (TCP)	PS04EPHY05	Theoretical Physics – II	Theory	4	4	3	30/10	70/28	100/40
	PS04EPHY06	Computational Physics - II	Theory	4	4	3	30/10	70/28	100/40
	PS04EPHY13	Practical & Project Work – I	Practical	4	12 Hrs	3	30/10	70/28	100/40
	PS04EPHY14	Practical & Project Work – II	Practical	4	12 Hrs	3	30/10	70/28	100/40
	PS04EPHY19	Viva-Voce (TCP)		1	--	--	--	50/20	50/20
Energy Science & Technology (EST)	PS04EPHY07	Bio-Mass & Other Systems; Energy Storage	Theory	4	4	3	30/10	70/28	100/40
	PS04EPHY08	Nuclear Energy & Energy Strategies	Theory	4	4	3	30/10	70/28	100/40
	PS04EPHY15	Practical & Project Work – I	Practical	4	12 Hrs	3	30/10	70/28	100/40
	PS04EPHY16	Practical & Project Work – II	Practical	4	12 Hrs	3	30/10	70/28	100/40
	PS04EPHY20	Viva-Voce (EST)		1	--	--	--	50/20	50/20

