4/1/2/3 Curriculum Study Plan (Material Science track)

Level	Course Code	Course Title	Required or Elective	Prerequisite Courses	Credit Hours
Level 1	403600	Mathematical Physics	Required		3
	403602	Statistical Physics	Required		3
	403604	Electrodynamics	Required		3
	403606	Computational Physics	Required		3
		Semester Hours			12
Level 2	403631	Solid State Physics	Required	Academic guide	3
	403633	Advanced Crystallography	Required	Academic guide	3
	403635	Characterization techniques	Required	Academic guide	3
	403637	Physical Properties of solid materials	Required	Academic guide	3
		Semester Hours			12
Level 3	403624	New and Renewable Energy	403631	Academic guide	3
	4036XX	Phys. 610, 620 & 626	Elective	Academic guide	3
	403628	Nanotechnology in Medicine	403631	Academic guide	3
	403614	Research Methodology	Required	Academic guide	3
		Semester Hours			12
Level 4	403616	Special topics*	Required	Academic guide	2
	403617	Research Project	Required	Academic guide	5
	403619	Seminar**	Required	Department approval	1
		Semester Hours			8
		Total Hours			44
Elective Courses	403610	Advanced Programming		Academic guide	3hrs
	403620	Semiconductor device modelling			3hrs
	403626	Advanced Research Lab.			3hrs
	*This course is proposed by faculty members based on students 'track and new trends in Physics. **Scheduled discussions of current problems in physics, centered around guest lecturer and student presentations. It is designed to acquaint the graduate student with current research areas in physics				

Include additional levels or courses if needed